



BOOK OF GAMES

WARNING
HAVE YOU SEEN
THIS MAN



HIGHLY DANGEROUS
WANTED FOR
TREACHERY



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A message from
Ideas Central ...

HI...

Melissa Ravenflame, here, co-ordinator of IDEAs Central.

Welcome to another superb
Computer + Video Games

Book of Games — 32 pages
packed with great listings

which you should find great fun. They will
help improve your programming skills as
well.

Otiss, Big Red and B-Con have given the
listings a good going over so they should
be free of bugs. But if you do have any
problems don't hesitate to call the Bug
Hunters.



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Spectrum**

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Bluff and bamboozlement are the
weapons you'll need to work your way
through the world of espionage.

Fun in the farmyard as the Farmer Giles
has an egg-citing time.

There's no business like snow business
as you cope with the ski slopes.

A special treat for QL owners Car and
intelligence will be needed in this game.

Mission Impossible? Time will tell with
this alien adventure.

Squeals on wheels ... so get into gear
for race track action.

A taxing game. The Inland Revenue is
out to get a lot of money.

Dares in the air as you fly close to the
ground and destruction.

TREACHERY

IT IS THE YEAR 1984 AND THANKFULLY BIG BROTHER IS STILL JUST A DISTANT NIGHTMARE. YET, A MENACE JUST AS PERILOUS THREATENS THE WORLD....

THE SINISTER PROFESSOR SCHWEINSTEIN!



HEHEHEH!

AFTER MANY YEARS OF SECRET RESEARCH, SCHWEINSTEIN SUCCEEDED IN CREATING WHAT COULD BE THE ULTIMATE WEAPON....

A DEVICE HE CALLED THE MINDBOMB!



WHEN DETONATED, IT SIMPLY WIPES CLEAN THE MEMORIES OF ANYONE WITHIN TEN MILES OF THE EXPLOSION.

EVEN WHEN IT IS DOING NOTHING, IT HAS A TENDENCY TO CAUSE RANDOM OUTBREAKS OF AMNESIA FOR MILES AROUND!



SCHWEINSTEIN HAS ALSO PERFECTED A SUPERB DELIVERY SYSTEM FOR HIS WEAPON, THE MANDROID!



IN REALITY AN ANDROID, IT SO CLOSELY RESEMBLES A MAN THAT IT IS VIRTUALLY UNDETECTABLE.

WITH THE MINDBOMB CONCEALED IN THE MANDROID'S ABDOMEN, SCHWEINSTEIN IMAGINED HE COULD BLACKMAIL THE WORLD.



HOWEVER, JUST AS HIS CREATION WAS COMPLETE, AN ACCIDENT OCCURED AND SCHWEINSTEIN BECAME THE FIRST VICTIM OF HIS OWN WEAPON....

HE FORGOT EVERYTHING!

HE FORGOT ABOUT THE MANDROID
AND ITS HOMING BEACON....

ДУНДУНДУН?

HE FORGOT ABOUT THE MINDBOMB AND
ITS REMOTE FIRING BUTTON....

HE EVEN FORGOT ABOUT HIS TWO HOLLOW
TEETH, WHICH CONTAIN THE AMNESIA ANTIDOTE
AND THE ENTIRE HISTORY OF HIS RESEARCHES
ON MICRO-DISK.

HE ALSO FORGOT ABOUT THE BLACKMAIL LETTERS
HE SENT TO THE BRITISH AND THE SOVIETS!

00#!?!+x!

NOW MI6 AND THE KGB ARE SEARCHING
DESPERATELY FOR SCHWEINSTEIN, HIS FIRING
BUTTON AND HIS HOMING BEACON.

SCHWEINSTEIN IS A BROKEN MAN, ROAMING THE URBAN
WILDERNESS IN SEARCH OF HIS LOST IDENTITY....

SNIFF.
KOFF!

WHOEVER FINDS HIM FIRST WILL
HAVE PULLED OFF A TREMENDOUS
INTELLIGENCE COUP.

MEANWHILE, THE MANDROID IS
WANDERING ACROSS EUROPE!

THEY KNOW WHICH CITY IT IS IN AT
ANY ONE TIME BY THE INCREASED
INCIDENCE OF AMNESIA. BEYOND THAT,
THEY CAN GO NO FURTHER IN
TRACKING IT DOWN.

WHICHEVER SIDE GAINS CONTROL OF
THE HOMING BEACON AND FIRING
BUTTON WILL FIND IT EASY TO WIPE
OUT THE ENEMY'S INTELLIGENCE
NETWORK COMPLETELY....

LONDON AND MOSCOW ARE IN
DANGER OF LOSING THEIR MINDS!

TREACHERY

Treachery is a tricky business at the best of times and you can be sure that the "friend" you are playing will be doing his worst to double-cross you. Bluff and bamboozlement are the weapons to use. A knowing smile or a subtle twitch of an eyebrow as you read through your agents' reports can be enough to send your opponent into a frenzied panic. But beware! He won't start tearing his hair out. He'll just nod calmly at you as if to say: "Yes, you've fallen for my trap."

LESSON ONE: IT'S FOR YOU-HOO!

Sending, receiving and intercepting messages is the key to success in Treachery. No self-respecting spymaster forgets that every order he sends and every report he receives may have been intercepted en route by the enemy and a clever spymaster uses this fact to his advantage.

Only a real traitor will betray your messages to the enemy and that betrayal will result in a message reporting interception to enemy HQ. With any luck, one of your agents will himself intercept the message of interception and report it back to your HQ. You then discover the identity of the traitor in your midst and you also know that your intercepting agent can be completely trusted. If he really belonged to the enemy, he would never have sent in an interception report.

So, in the early stages, it's a good idea to send orders by the longest routes possible in the hope that they get intercepted. At the same time, you should call in reports by the shortest and safest routes back to HQ since they may carry information you definitely don't want betrayed to the enemy.

LESSON TWO: THE BEST MOLES STAY UNDERGROUND

Until you have some idea of which agents are to be trusted, the best action is no action. If you use your agents James Bond fashion and leave a trail of dead bodies across Europe, you are very likely to lose the game. Your own agents become prominent targets, you waste time that can be more profitably spent gathering information and you are quite likely to bump off someone who is not an enemy agent.

Don't forget that even enemy agents can be very useful so long as you know who they are. They will be gathering information too — information that you can intercept and use to your own advantage.

Relocating an agent in a different city should only be done of necessity — you waste valuable spying opportunities and you might, in fact, be moving an enemy double-agent to a better position!

Instead, the first few turns should be spent making

innocuous "searches" in the cities where you have agents. Soon you will build up a working knowledge of who to trust. Only then should you begin to think about new stations for your agents.

A vital task is to establish secure routes for your orders and reports by moving men you know you can rely on into gaps or suspect links in your communications.

Appropriately enough, Berlin, notorious for its wealth of spies, is a key centre for routing messages through. Without a man in Berlin, your flexibility in sending orders and calling in reports is severely limited and it is the one place where you might allow yourself the luxury of eliminating the opposition once and for all.

Another essential task is to make sure you have a trusted mole close to or in the enemy HQ, ready to intervene if the opposition finds Schweinstein first and makes a break for home.

LESSON THREE: A SNEAK IN TIME SAVES NINE

Above all, you must be sneaky. Not only is it vital in winning the game, it's also great fun! How sneaky you can be depends on the calibre of your opponent — it's no use employing tortuously subtle ruses against a blockhead — but it always offers rewarding opportunities for creative thinking.

One of my favourites is to send orders to an agent to kill your own Master Spy but to send them by an

incomplete route so that they never actually arrive! You make sure, however, that the route includes a traitor who will betray your orders to the enemy. Your opponent immediately gets the impression that you have discovered one of his triple agents and have decided to eliminate him. He never suspects for one moment that you would kill your own Master Spy and now believes he knows an agent he can trust!

LESSON FOUR: DON'T PANIC

Never lose your cool. Rushing into action with all guns blazing is a tempting recourse during a crisis but calm, logical thinking will usually find a quiet solution to the problem. Remember, it is Smiley, not Bond, who wins at Treachery.

TREACHERY

```

10 *****
20 REM ** TREACHERY **
30 *****
40 ** Converted From Spectrum **
50 ** & Commodore Listings in **
60 ** Computer & Video Games **
70 *****
80 CLEAR
90 MODE 1
100 WINDOW#1,11,37,5,22:PAPER#1,0
110 ON ERROR GOTO 7750
120 GOTO 3420
130 ** *****
140 REM ** Print Message Sheet **
150 ** *****
160 CLS#1
170 PLOT 158,336,2:DRAW# 438,0:DRAW# 0,-
294:DRAW# -438,0:DRAW# 0,294
180 PEN 1
190 RETURN
200 ** *****
210 REM ** Start of Turn Page **
220 ** *****
230 CLS:CLS#1:x=3:y=2:GOSUB 2940
240 PLOT 1,1,1:DRAW 1,399:DRAW 639,399:D
RAW 639,1:DRAW 1,1
250 GOSUB 160
260 FOR k=1 TO 3
270 LOCATE#1,4,1+k:PRINT#1, t$(k)
280 NEXT
290 LOCATE#1,5,5:PRINT#1,p$(p,1)
300 LOCATE#1,2,7:PRINT#1,"OPERATIONAL FI
LE"
310 LOCATE#1,2,9:PRINT#1,"REF: ";p$(p,2)
320 LOCATE#1,2,11:PRINT#1,"Heidelberg Sc
hweinstein"
330 LOCATE#1,2,13:PRINT#1,"GRADE 1 ACCES
S ONLY"
340 LOCATE#1,2,15:PRINT#1,"Enter Clearan
ce Code"
350 LOCATE#1,2,17:PRINT#1,STRING$(6,210)
360 SOUND 7,200,25,5
370 c$="":FOR k=1 TO 6
380 k$=INKEY$:IF k$="" THEN 380
390 IF k$="a" OR k$="z" THEN GOTO 380
400 k$=CHR$(ASC(k$)-32):c$=c$+k$
410 LOCATE#1,1+k,17:PRINT#1,k$
420 IF INKEY$(">") THEN 420
430 NEXT :IF day=3 THEN 98$(p)=c$
440 IF c$<>9$(p) THEN LOCATE#1,9,17:PRIN
T#1,"IS INCORRECT":SOUND 7,1000,25,5,0,0
,7:FOR k=1 TO 1000:NEXT:LOCATE#1,9,17:PR
INT#1," " :GOTO 350
450 RETURN
460 *****
470 REM ** End of Page **
480 *****
490 LOCATE#1,2,17:PRINT#1,CHR$(24);" KEY
COPY OR RETURN ";CHR$(24)
500 SOUND 7,200,25,5
510 IF INKEY$(18)<>-1 THEN GOTO 550
520 IF INKEY$(9)<>-1 THEN 540
530 GOTO 510
540 LOCATE#1,2,17:PRINT#1,"
" :GOSUB 7620
550 RETURN
560 GOSUB 160
570 LOCATE#1,2,2:PRINT#1,p$(p,1)," DAY",
day
580 LOCATE#1,2,3:PRINT#1,"INCOMING REPOR

```

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T"
590 LOCATE#1,2,5:PRINT#1,"PRESS KEY FOR
YOUR AGENT"
600 k$=INKEY$:IF k$="" THEN 600
610 IF k$="" THEN RETURN
620 IF k$="a" AND k$<="z" THEN a$=ASC(k
$)-96:GOTO 650
630 IF k$="0" AND k$<="9" THEN a$=ASC(k
$)-21:GOTO 650
640 GOTO 600
650 IF ASC(n$(a$,4))=0 THEN GOTO 610
660 orank=ASC(n$(a$,p+1))
670 erank=ASC(n$(a$,p+7))
680 IF orank>erank AND ASC(MID$(f$(1,a$)
,5,1))>0 THEN 720
690 LOCATE#1,2,7:PRINT#1,CHR$(24);" NO R
EPORT IS AVAILABLE ";CHR$(24)
700 FOR k=1 TO 500:NEXT
710 GOTO 560
720 IF ASC(MID$(f$(1,a$),2,1))=0 THEN 78
0
730 m1=ASC(MID$(f$(1,a$),2,1))
740 m5=ASC(MID$(f$(1,a$),3,1))
750 m6=ASC(MID$(f$(1,a$),4,1))
760 f$(1,a$)=LEFT$(f$(1,a$),1)+CHR$(0)+M
ID$(f$(1,a$),3)
770 GOTO 820
780 m1=17:IF ASC(LEFT$(f$(1,a$),1))>1 TH
EN m1=16
790 m5=ASC(MID$(f$(1,a$),6))
800 m6=0
810 f$(1,a$)=LEFT$(f$(1,a$),5)+MID$(f$(1
,a$),7,8)+RIGHT$(f$(1,a$),1)
820 m2=a$
830 m3=p
840 m4=day-1
850 f$(1,a$)=LEFT$(f$(1,a$),4)+CHR$(ASC(
MID$(f$(1,a$),5,1))-1)+MID$(f$(1,a$),6)
860 m$=CHR$(m1)+CHR$(m2)+CHR$(m3)+CHR$(m
4)+CHR$(m5)+CHR$(m6)
870 from=ASC(n$(a$,1))
880 type=1:IF p=2 THEN de=25 ELSE de=18
890 LOCATE#1,2,5:PRINT#1,"
"
900 LOCATE#1,2,5:PRINT#1,x$(a$);" TO ";M
ID$(p$(p,1),5):GOSUB 2360
910 IF k$="X" THEN GOTO 560
920 me=stack-1:md=3
930 GOSUB 160
940 LOCATE#1,2,2:PRINT#1,p$(p,1)," DAY",
day
950 LOCATE#1,2,3:PRINT#1,"INCOMING REPOR
T"
960 IF e=1 THEN LOCATE#1,2,5:PRINT#1,"RE
PORT HAS BEEN SENT BUT":LOCATE#1,2,6:PRI
NT#1,"IT HAS NOT BEEN RECEIVED":GOTO 490
970 y=4:GOSUB 1020
980 GOTO 490
990 *****
1000 REM ** Decode Message **
1010 *****
1020 m1=ASC(LEFT$(s$(md,me),1))
1030 m2=ASC(MID$(s$(md,me),2,1))
1040 m3=ASC(MID$(s$(md,me),3,1))
1050 m4=ASC(MID$(s$(md,me),4,1))
1060 m5=ASC(MID$(s$(md,me),5,1))
1070 m6=ASC(MID$(s$(md,me),6,1))
1080 LOCATE#1,2,y:PEN#1,3:PRINT#1,STRING
$(25,255):PEN#1,1:y=y+1
1090 IF m1<10 THEN LOCATE#1,2,y:PRINT#1,
MID$(p$(m3,1),5);" TO ";x$(m2)

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1100 IF m1>9 THEN LOCATE#1,2,y:PRINT#1,x
    $(m2)," TO " ; MID$(P$(m3,1),5)
1110 y=y+1
1120 ON m1 GOSUB 1170,1180,1190,1200,122
    0,1230,1250,1260,1270,1280,1300,1320
1130 IF m1>12 THEN ON (m1-12) GOSUB 1340
    ,1360,1380,1390,1420
1140 y=y+1
1150 LOCATE#1,2,y:PRINT#1,STRING
    $(25,255):PRINT#1,1
1160 RETURN
1170 LOCATE#1,2,y:PRINT#1,"Go to " ; m$(m5
    ):RETURN
1180 LOCATE#1,2,y:PRINT#1,"Kill " ; x$(m5)
    :RETURN
1190 LOCATE#1,2,y:PRINT#1,"Search " ; w$(m
    5):RETURN
1200 LOCATE#1,2,y:PRINT#1,"Steal " ; r$(m5
    ):y=y+1
1210 LOCATE#1,2,y:PRINT#1,"From agent " ;
    x$(m6):RETURN
1220 LOCATE#1,2,y:PRINT#1,"Hide " ; r$(m5)
    :RETURN
1230 LOCATE#1,2,y:PRINT#1,"Transfer " ; r$(
    m5):y=y+1
1240 LOCATE#1,2,y:PRINT#1,"To agent " ; x$(
    m5):RETURN
1250 LOCATE#1,2,y:PRINT#1,"Change status
    to " ; y$(m5):RETURN
1260 LOCATE#1,2,y:PRINT#1,"Switch HOMING
    -BEACON " ; o$(m5):RETURN
1270 LOCATE#1,2,y:PRINT#1,"Explode MIND-
    BOMB":RETURN
1280 LOCATE#1,2,y:PRINT#1,r$(m5)," captu
    red":y=y+1
1290 LOCATE#1,2,y:PRINT#1,"in " ; w$(m6):R
    ETURN
1300 LOCATE#1,2,y:PRINT#1,r$(m5)," locat
    ed":y=y+1
1310 LOCATE#1,2,y:PRINT#1,"in " ; w$(m6):R
    ETURN
1320 LOCATE#1,2,y:PRINT#1,"SCHWEINSTEIN
    was seen on":y=y+1
1330 LOCATE#1,2,y:PRINT#1,"DAY";m5;"in "
    ; w$(m6):RETURN
1340 LOCATE#1,2,y:PRINT#1,"I have got " ;
    r$(m5):y=y+1
1350 LOCATE#1,2,y:PRINT#1,"From " ; x$(m6)
    :RETURN
1360 LOCATE#1,2,y:PRINT#1,"I have not got
    it":y=y+1
1370 LOCATE#1,2,y:PRINT#1,r$(m5):RETURN
1380 LOCATE#1,2,y:PRINT#1,"Goods have be
    en stolen":RETURN
1390 LOCATE#1,2,y:PRINT#1,"Message stopp
    ed on DAY";m4:y=y+1
1400 IF md=1 THEN LOCATE#1,2,y:PRINT#1,"
    Contents not available":RETURN
1410 me=m5:md=md-1:GOSUB 1020:RETURN
1420 LOCATE#1,2,y:PRINT#1,"Message Passe
    d on DAY";m4:y=y+1
1430 IF md=1 THEN LOCATE#1,2,y:PRINT#1,"
    Contents not available":RETURN
1440 me=m5:md=md-1:GOSUB 1020:RETURN
1450 *****
1460 REM ** Give Orders ***
1470 *****
1480 i$="" : m6=0:GOSUB 160:LOCATE#1,2,2:P
    RINT#1,P$(p,1):" DAY";day
1490 LOCATE#1,2,4:PRINT#1,"OUTGOING ORDE
    R'S"

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```

1500 LOCATE#1,2,6:PRINT#1,"PRESS KEY FOR
    YOUR AGENT"
1510 k$=INKEY$:IF k$="" THEN 1510
1520 IF k$=" " THEN RETURN
1530 IF k$="a" AND k$<="z" THEN m2=ASC(
    k$)-96:GOTO 1560
1540 IF k$="0" AND k$<="9" THEN m2=ASC(
    k$)-21:GOTO 1560
1550 GOTO 1510
1560 IF ASC(m$(m2,4))=0 THEN 1510
1570 LOCATE#1,2,7:PRINT#1,MID$(P$(p,1),5
    )," TO " ; x$(m2)
1580 LOCATE#1,2,8:PRINT#1,"KEY 1 Go to
    city"
1590 LOCATE#1,2,9:PRINT#1,"KEY 2 Kill a
    gent"
1600 LOCATE#1,2,10:PRINT#1,"KEY 3 Searc
    h city"
1610 LOCATE#1,2,11:PRINT#1,"KEY 4 Steal
    object"
1620 LOCATE#1,2,12:PRINT#1,"KEY 5 Hide
    object"
1630 LOCATE#1,2,13:PRINT#1,"KEY 6 Trans
    fer object"
1640 LOCATE#1,2,14:PRINT#1,"KEY 7 Chan9
    e status"
1650 LOCATE#1,2,15:PRINT#1,"KEY 8 Switc
    h BEACON"
1660 LOCATE#1,2,16:PRINT#1,"KEY 9 Expl
    ode MIND-BOMB"
1670 k$=INKEY$:IF k$="" THEN 1670
1680 IF k$<"1" OR k$>"9" THEN 1670
1690 m1=VAL(k$)
1700 FOR k=2 TO 9
1710 LOCATE#1,2,7+k:PRINT#1,"
1720 NEXT
1730 LOCATE#1,2,8:PRINT#1,"
    " ; LOCATE#1,2,8
1740 ON VAL(k$) GOSUB 1840,1850,1860,187
    0,1880,1890,1900,1910,1920
1750 m3=m4=day
1760 m$=CHR$(m1)+CHR$(m2)+CHR$(m3)+CHR$(
    m4)+CHR$(m5)+CHR$(m6)
1770 IF P=2 THEN from=25 ELSE from=18
1780 t$=P:de=ASC(m$(m2,1)):GOSUB 2360
1790 IF k$="X" THEN GOTO 1480
1800 RETURN
1810 *****
1820 REM ** Parameter Selection **
1830 *****
1840 PRINT#1,"Go to ..." : GOTO 1930
1850 PRINT#1,"Kill ..." : GOSUB 2020:m5=a9
    :LOCATE#1,7,8:PRINT#1,x$(m5):RETURN
1860 m5=ASC(m$(m2,1)):PRINT#1,"Search " ;
    w$(m5):RETURN
1870 PRINT#1,"Steal ..." : GOSUB 2110:LOCA
    TE#1,8,8:PRINT#1,r$(m5):LOCATE#1,2,9:PRI
    NT#1,"from agent ..." : GOSUB 2020:m6=a9:L
    OCATE#1,13,9:PRINT#1,x$(m6):RETURN
1880 PRINT#1,"Hide ..." : GOSUB 2110:LOCA
    TE#1,7,8:PRINT#1,r$(m5):RETURN
1890 PRINT#1,"Transfer ..." : GOSUB 2110:L
    OCATE#1,11,8:PRINT#1,r$(m5):LOCATE#1,2,9
    :PRINT#1,"to agent ..." : GOSUB 2020:m6=a9
    :LOCATE#1,11,9:PRINT#1,x$(m6):RETURN
1900 PRINT#1,"Change status to ..." : GOSU
    B 2200:LOCATE#1,19,8:PRINT#1,q$(m5):RETU
    RN
1910 PRINT#1,"Switch HOMING-BEACON ..." :
    GOSUB 2270:LOCATE#1,23,8:PRINT#1,o$(m5):
    RETURN

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TREACHERY

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1920 PRINT#1,"Explode MIND-BOMB":RETURN
1930 l=8:m5=ASC(n$(k,1)):FOR k=1 TO 8
1940 k$=MID$(a$(m5),k,1):IF k$="" THEN
1=k-1:k=8:GOTO 1960
1950 LOCATE#1,2,10+k:PRINT#1,"KEY":k,m$(
ASC(k$)-64)
1960 NEXT
1970 k$=INKEY$:IF k$="" THEN 1970
1980 IF k$<"1" OR k$>"RIGHT$(STR$(1),1)
THEN 1970
1990 GOSUB 2320
2000 m5=ASC(MID$(a$(m5),VAL(k$),1))-64:LO
CATE#1,8,8:PRINT#1,m$(m5):RETURN
2010 REM ** Key in Agent **
2020 LOCATE#1,2,11:PRINT#1,"PRESS KEY FO
R AGENT"
2030 k$=INKEY$:IF k$="" THEN 2030
2040 IF k$<"a" AND k$<"z" THEN a$=ASC(
k$)-96:GOTO 2070
2050 IF k$<"b" AND k$<"p" THEN a$=ASC(
k$)-21:GOTO 2070
2060 GOTO 2030
2070 IF ASC(n$(a$,4))=0 THEN 2030
2080 l=1:GOSUB 2320
2090 RETURN
2100 REM ** Key in Object **
2110 FOR k=1 TO 3
2120 LOCATE#1,2,10+k:PRINT#1,"KEY":k,n$(
k)
2130 NEXT
2140 k$=INKEY$:IF k$="" THEN 2140
2150 IF k$<"1" OR k$>"3" THEN 2140
2160 m5=VAL(k$)
2170 l=3:GOSUB 2320
2180 RETURN
2190 REM ** Key in Status **
2200 FOR k=1 TO 3
2210 LOCATE#1,2,10+k:PRINT#1,"KEY":k,q$(
k)
2220 NEXT
2230 k$=INKEY$:IF k$="" THEN 2230
2240 IF k$<"1" OR k$>"3" THEN 2230
2250 GOTO 2160
2260 REM ** Key in ON/OFF **
2270 LOCATE#1,2,11:PRINT#1,"KEY 1 ON":LO
CATE#1,2,12:PRINT#1,"KEY 2 OFF"
2280 k$=INKEY$:IF k$="" THEN 2280
2290 IF k$<"1" OR k$>"2" THEN 2280
2300 m5=VAL(k$)
2310 l=2
2320 FOR k=1 TO l+1:LOCATE#1,2,9+k:PRINT
#1," "
NEXT:RETU
RN
2330 *****
2340 REM ** Message Routine **
2350 *****
2360 LOCATE#1,2,10:PRINT#1,"Choose route
for message"
2370 LOCATE#1,2,11:PRINT#1,"by Pressing
agent keys"
2380 LOCATE#1,2,13:PRINT#1,"Destination
of message"
2390 LOCATE#1,2,14:PRINT#1,"will end rou
te entry"
2400 LOCATE#1,2,16:PRINT#1,"SPACE will c
ancel."
2410 LOCATE#1,2,17:PRINT#1,"Longest rout
e = 8 agents"
2420 k$=INKEY$:IF k$="" THEN 2420
2430 IF (k$<"0" OR k$>"9") AND (k$<"a" O
R k$>"z") AND k$<" " THEN GOTO 2420

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```

2440 IF k$="" THEN k$="X":RETURN
2450 l=8:GOSUB 2320
2460 a$="" :n=0:GOTO 2480
2470 k$=INKEY$:IF k$="" THEN 2470
2480 IF k$="" THEN l=8:GOSUB 2320:GOTO
2360
2490 IF k$<"0" AND k$<"9" THEN k=ASC(k
$)-21:GOTO 2520
2500 IF k$<"a" AND k$<"z" THEN k=ASC(k
$)-96:GOTO 2520
2510 GOTO 2470
2520 IF ASC(n$(k,4))=0 THEN 2470
2530 c=ASC(n$(k,1)):LOCATE#1,2,10+n:PRIN
T#1,x$(k,1),x$(k,1)
2540 n=n+1:a$a$+CHR$(k):IF c=d AND (ty
pe=1 OR k=m2) THEN GOTO 2580
2550 IF n=8 THEN LOCATE#1,2,9:PRINT#1,CH
R$(24): THIS ROUTE IS TOO LONG :CHR$(2
4):FOR k=1 TO 500:NEXT:l=8:GOSUB 2320:LO
CATE#1,2,9:PRINT#1,"
"
GOTO 2360
2560 IF INKEY$<" " THEN 2560
2570 GOTO 2470
2580 l=8:GOSUB 2320:LOCATE#1,2,10:PRINT#
1,"MESSAGE TO BE SENT VIA":FOR k=0 TO 2:
LOCATE#1,2,12+k
FOR j=1 TO 3
2600 IF k+3+j>n THEN GOTO 2630
2610 a$=ASC(MID$(a$,k+3+j,1))
2620 PRINT#1,x$(a$)," "
2630 NEXT:NEXT
2640 SOUND 7,200,25,5
2650 LOCATE#1,2,17:PRINT#1,CHR$(24):" KE
Y CLEAR, COPY OR ENTER":CHR$(24)
2660 IF INKEY$<">"-1 THEN GOSUB 7620:GOT
O 2700
2670 IF INKEY$(18)<">"-1 THEN 2700
2680 IF INKEY$(47)<">"-1 THEN RETURN
2690 GOTO 2660
2700 LOCATE#1,2,17:PRINT#1,"THE MESSAGE
IS BEING SENT"
2710 s$(3,stack)=m$
2720 *****
2730 REM **Message Interception **
2740 *****
2750 e=0:a$=i+a$:n=LEN(a$):FOR k=1 TO n
2760 a$=ASC(MID$(a$,k,1)):tt=ASC(n$(a$,1
))
2770 IF e=1 OR VAL(MID$(z$(from),tt,1))>
1 THEN e=1:GOTO 2840
2780 orank=ASC(n$(a$,p+1)):erank=ASC(n$(
a$,4-p))
2790 IF orank>erank THEN GOTO 2840
2800 im=ASC(MID$(f$(2,a$,5,1)):IF im=0
AND ASC(MID$(f$(2,a$,im+5,1))=stack THE
N GOTO 2840
2810 im=im+1:f$(2,a$)=LEFT$(f$(2,a$),4)+
CHR$(im)+MID$(f$(2,a$,6,5)
2820 f$(2,a$)=LEFT$(f$(2,a$),im+4)+CHR$(
stack)+MID$(f$(2,a$,im+5,5)
2830 IF ASC(n$(a$,4))>1 THEN e=1:IF k=n
AND ASC(LEFT$(n$,1))<10 AND ASC(n$(a$,4
))=2 THEN e=0
2840 from=tt
2850 NEXT
2860 IF ASC(LEFT$(n$,1))>9 OR e=1 THEN 2
900
2870 IF orank=0 THEN 2900
2880 IF orank<erank AND ASC(n$(a$,5))<>0
THEN 2900
2890 n$(a$,5)=CHR$(stack)

```

```

2900 stack=stack+1:RETURN
2910 *****
2920 REM ** Draw Flag **
2930 *****
2940 IF P=2 THEN PEN 3
2950 FOR k=1 TO 14
2960 LOCATE x,y+k-1:PRINT u$(P,k)
2970 NEXT
2980 PEN 1:RETURN
2990 *****
3000 REM ** Player Tune **
3010 *****
3020
3030
3040 *****
3050 REM ** UDG Data **
3060 *****
3070 DATA 255,255,253,248,241,225,246,25
3080 DATA 255,255,239,199,152,63,127,255
3090 DATA 255,255,239,247,251,251,12
3100 DATA 187,211,231,199,27,253,255,255
3110 *****
3120 REM ** Various Strings **
3130 *****
3140 DATA M16 LONDON CONTROL
3150 DATA KGB MOSCOW CENTRAL
3160 DATA SCHW,315b,QZ
3170 DATA L10/ROBOTNIK/S-20
3180 DATA ON,OFF
3190 DATA ASLEEP,AWAKE,ACTIVE
3200 DATA SCHWEINSTEIN,FIRING BUTTON,HOM
3210 DATA 4,3,3,4,3,2,3,2
3220 DATA 2,3,2,3,2,1,2,1
3230 DATA 2,1,2,1,1,2,1,2
3240 DATA 1,2,1,2,1,0,1,0
3250 DATA 1,0,1,0,1,0,1,0
3260 DATA 1,0,1,0,0,1,0,1
3270 DATA 0,1,0,1,0,1,0,1
3280 DATA 0,1,0,1,0,0,0,0
3290 DATA 0,0,0,0,0,0,0,0
3300 *****
3310 REM ** Cities & Agents **
3320 *****
3330 DATA AMSTERDAM,ALPHA,BELGRADE,BRAVO
3340 DATA VIENNA,CHARLIE,PARIS,DELTA,OSLO,ECHO,LI
3350 DATA SBON,FOXTROT,MADRID,GOLF,TANGIER,HOTEL,W
3360 DATA ARSAM,IVAN,ROME,JULIET
3370 DATA ATHENS,KING,ISTANBUL,LIMA,BUCH
3380 DATA AREST,MIKE,SOFIA,NOBLE,PRAGUE,OSCAR,COPE
3390 DATA NHAGEN,PAPA,REYKJAVIK,QUIZ,LONDON,ROMEO,
3400 DATA BRUSSELS,SIERRA,BERLIN,TANGO
3410 DATA HELSINKI,UNCLE,BUDAPEST,VICTOR
3420 DATA DUBLIN,WINTER,ZURICH,X-RAY,MOSCOW,YANKE
3430 DATA E,STOCKHOLM,ZULU
3440 DATA ZERO,ONE,TWO,THREE,FOUR,FIVE,S
3450 DATA SIX,SEVEN,EIGHT,NINE
3460 DATA "PTSR", "VMKJC", "OVBJXT
3470 DATA "STXJGR", "UZPRW", "WRGH", "RDJ
3480 DATA "KFG", "YVOTZ", "CBKGDX",
3490 DATA "NLHGJB", "YKNI", "YLNBV", "MLKB
3500 DATA "IVCT", "EZITAR", "UEW", "EP
3510 DATA "ASDGFH", "ATDR", "PIODXDSR", "YZEO
3520 DATA "IYMBCO",
3530 DATA "QERF", "TCJD", "LMVIZU
3540 DATA "UYUIPE",
3550 *****
3560 REM ** Game Start **
3570 *****

```

```

3420 BORDER 13:INK 0,26:INK 1,0:INK 2,2:
3430 INK 3,6
3440 CLS:PEN 1
3450 LOCATE 12,1:PRINT" T R E A C H E R Y
3460 LOCATE 4,3:PRINT" When the " :PEN 3:
3470 PRINT" KGB " :PEN 1:PRINT" and " :PEN 2:PR
3480 INT" M16 " :PEN 1:PRINT" wage a war of "
3490 LOCATE 3,4:PRINT" uits through the c
3500 apitals of Europe, "
3510 LOCATE 11,5:PRINT" nothing is simple
3520 "
3530 OPENOUT "during"
3540 MEMORY HIMEM-1
3550 CLOSEOUT
3560 *****
3570 REM ** User Defined Graphics **
3580 *****
3590 BORDER 9
3600 FOR char=251 TO 254
3610 FOR ch=1 TO 8
3620 READ a(ch)
3630 NEXT
3640 SYMBOL char,a(1),a(2),a(3),a(4),a(5
3650 ),a(6),a(7),a(8)
3660 NEXT
3670 SYMBOL 255,0,0,0,255,255,0,0,0
3680 *****
3690 REM ** Top Secret Data **
3700 *****
3710 t$(1)=CHR$(139)+CHR$(129)+CHR$(135)
3720 +CHR$(133)+CHR$(135)+CHR$(133)+ " +CHR$
3730 (135)+CHR$(129)+CHR$(135)+CHR$(129)+CHR$
3740 (135)+CHR$(129)+CHR$(135)+CHR$(133)+CHR$
3750 (135)+CHR$(129)+CHR$(139)+CHR$(129)
3760 t$(2)=CHR$(138)+ " +STRING$(2,13)+
3770 CHR$(135)+CHR$(129)+ " +CHR$(131)+CHR$(
3780 133)+CHR$(135)+ " +CHR$(133)+ " +CHR$(13
3790 5)+CHR$(132)+CHR$(135)+ " +CHR$(138)
3800 t$(3)=CHR$(130)+ " +CHR$(131)+CHR$(
3810 129)+CHR$(129)+ " +CHR$(131)+CHR$(129)
3820 +CHR$(131)+CHR$(129)+CHR$(131)+CHR$(129)
3830 +CHR$(129)+CHR$(129)+CHR$(131)+CHR$(129)
3840 +CHR$(130)
3850 *****
3860 REM ** Construct Flag Strings **
3870 *****
3880 DIM u$(2,14):u$(1,1)="3"+CHR$(213)+
3890 CHR$(143)+CHR$(215)+ "2"+CHR$(213)+STRIN
3900 G$(3,143)+ " "+ "3"+STRING$(3,143)+ " "+ "2"+
3910 STRING$(3,143)+CHR$(212)+ "3"+CHR$(214)+C
3920 HR$(143)+CHR$(212)
3930 u$(1,2)="2"+CHR$(215)+ "3"+CHR$(213)
3940 +CHR$(143)+CHR$(215)+ "2"+CHR$(213)+STRIN
3950 G$(2,143)+ " "+ "3"+STRING$(3,143)+ " "+ "2"
3960 +STRING$(2,143)+CHR$(212)+ "3"+CHR$(214)+
3970 CHR$(143)+CHR$(212)+ "2"+CHR$(214)
3980 u$(1,3)="2"+CHR$(143)+CHR$(215)+ "3"
3990 +CHR$(213)+CHR$(143)+CHR$(215)+ "2"+CHR$(
4000 213)+CHR$(143)+ " "+ "3"+STRING$(3,143)+ "
4010 "+ "2"+CHR$(143)+CHR$(212)+ "3"+CHR$(214)+
4020 CHR$(143)+CHR$(212)+ "2"+CHR$(214)+CHR$(
4030 143)
4040 u$(1,4)="2"+CHR$(143)+CHR$(143)+CHR
4050 $(215)+ "3"+CHR$(213)+CHR$(143)+CHR$(215)
4060 + "2"+CHR$(213)+ " "+ "3"+STRING$(3,143)+ "
4070 "+ "2"+CHR$(212)+ "3"+CHR$(214)+CHR$(143)+
4080 CHR$(212)+ "2"+CHR$(214)+STRING$(2,143)
4090 u$(1,5)="2"+STRING$(3,143)+CHR$(215)
4100 + "3"+CHR$(213)+CHR$(143)+CHR$(215)+ " "+

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STRING$(3,143)+""+CHR$(214)+CHR$(143)+CHR$(212)+""+CHR$(214)+STRING$(3,143)
3770 u$(1,6)=STRING$(8,"")+"3"+STRING$(3,143)+STRING$(8,"")+"3"+CHR$(1,6)
3780 u$(1,7)="3"+STRING$(19,143)+u$(1,8)+u$(1,7)
3790 u$(1,10)="2"+STRING$(3,143)+CHR$(212)+""+CHR$(214)+CHR$(143)+CHR$(212)+""+STRING$(3,143)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+STRING$(3,143)
3800 u$(1,11)="2"+STRING$(2,143)+CHR$(212)+""+CHR$(214)+CHR$(143)+CHR$(212)+""+CHR$(214)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+STRING$(2,143)
3810 u$(1,12)="2"+CHR$(143)+CHR$(212)+""+CHR$(214)+CHR$(143)+CHR$(212)+""+CHR$(214)+STRING$(3,143)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)
3820 u$(1,13)="2"+CHR$(212)+""+CHR$(214)+CHR$(143)+CHR$(212)+""+CHR$(214)+STRING$(2,143)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)
3830 u$(1,14)="3"+CHR$(214)+CHR$(143)+CHR$(212)+""+CHR$(214)+STRING$(3,143)+""+CHR$(213)+CHR$(143)+CHR$(215)+""+CHR$(213)+CHR$(143)+CHR$(215)
3840 l$=STRING$(19,143)
3850 FOR l=1 TO 14
3860 u$(2,1)=l$
3870 NEXT
3880 MID$(u$(2,2),16,2)=CHR$(251)+CHR$(253)
3890 MID$(u$(2,3),16,2)=CHR$(252)+CHR$(254)
3900 REM a$="" b$="" c$="" d$="" e$="" f$="" g$="" h$="" i$="" j$="" k$="" l$="" m$="" n$="" o$="" p$="" q$="" r$="" s$="" t$="" u$="" v$="" w$="" x$="" y$="" z$=""
3910 ' *****
3920 REM ** Print Flags **
3930 ' *****
3940 P=2:X=20:Y=7
3950 GOSUB 2940
3960 P=1:X=3:Y=11
3970 GOSUB 2940
3980 ' *****
3990 REM ** Read Various Strings **
4000 ' *****
4010 DIM P$(2,2)
4020 READ P$(1,1),P$(2,1)
4030 READ P$(1,2),P$(2,2)
4040 DIM o$(2),q$(3),r$(3)
4050 DIM a$(3,16)
4060 READ o$(1),o$(2)
4070 READ q$(1),q$(2),q$(3)
4080 READ r$(1),r$(2),r$(3)
4090 DIM n$(36,5),f$(2,36)
4100 FOR k=1 TO 26:n$(k,1)=CHR$(k):NEXT k
4110 FOR k=27 TO 31:n$(k,1)=CHR$(18):NEXT k
4120 FOR k=32 TO 36:n$(k,1)=CHR$(25):NEXT k
4130 FOR k=1 TO 36:FOR j=2 TO 5:n$(k,j)=CHR$(32):NEXT j:NEXT k
4140 m$="" :FOR k=1 TO 13:m$=m$+CHR$(0):N

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4150 RANDOMIZE TIME :FOR k=1 TO 36
4160 READ a,b
4170 c=INT(RND*36)+1:IF ASC(n$(c,2))<>32 THEN GOTO 4170
4180 n$(c,2)=CHR$(a):n$(c,3)=CHR$(b)
4190 f$(1,c)=CHR$(1)+m$:n$(c,4)=CHR$(1)
4200 IF (a=1 AND b=0) OR (a=0 AND b=1) THEN f$(1,c)=CHR$(3)+m$:n$(c,4)=CHR$(3)
4210 f$(2,c)=f$(1,c)
4220 n$(c,5)=CHR$(0)
4230 NEXT
4240 DIM g$(2),o$(6,5),s(4)
4250 BORDER 2
4260 ' *****
4270 REM ** Read Cities & Agents **
4280 ' *****
4290 DIM u$(26),x$(36)
4300 FOR k=1 TO 26
4310 READ u$(k),x$(k)
4320 NEXT
4330 FOR k=27 TO 36
4340 READ x$(k)
4350 NEXT
4360 DIM y$(26)
4370 FOR k=1 TO 26
4380 READ y$(k)
4390 NEXT
4400 BORDER 6
4410 ' *****
4420 REM ** City to City Distance **
4430 ' *****
4440 DIM z$(26):GOSUB 7800
4450 GOSUB 8100:REM **Screen Copy M/C **
4460 ' *****
4470 REM ** Game Start **
4480 ' *****
4490 BORDER 24:zzz=FRE("")
4500 day=3
4510 BORDER 26
4520 stack=1
4530 P=1
4540 r=INT(RND*26)+1:IF r=18 OR r=25 THEN N 4540
4550 s(1)=r:schwa9=0
4560 FOR j=1 TO 5:GOSUB 6210:NEXT j
4570 r=INT(RND*26)+1:IF r=18 OR r=25 THEN N 4570
4580 btag=0:btloc=r
4590 r=INT(RND*26)+1:IF r=18 OR r=25 OR r=btloc THEN 4590
4600 btag9=0:btloc=r:bcon=2
4610 manloc=INT(RND*26)+1
4620 explod=0
4630 GOTO 4980
4640 ' *****
4650 REM ** Print Agent Ranks **
4660 ' *****
4670 GOSUB 160
4680 LOCATE#1,2,2:PRINT#1,MID$(P$(P,1),1,4), "RANK & AGENT DAY":day
4690 PEN#1,3
4700 y=4:x=2
4710 FOR k=1 TO 36
4720 IF ASC(n$(k,4))=0 OR ASC(o$(k,P+1))=0 THEN GOTO 4770
4730 a=ASC(n$(k,P+1))
4740 LOCATE#1,x,y:PRINT#1,a,"",x$(k)
4750 y=y+1
4760 IF y=15 THEN y=4:x=14
4770 NEXT
4780 PEN#1,1

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4790 GOTO 490
4800 ' *****
4810 REM ** List Agent Reports **
4820 ' *****
4830 GOSUB 160
4840 LOCATE#1,2,2:PRINT#1,MID$(P$(P,1),1
,4);"AGENT REPORTS DAY";day
4850 y=4:x=2
4860 FOR k=1 TO 36
4870 IF ASC$(n$(k,4))=0 THEN GOTO 4930
4880 onank=ASC$(n$(k,P+1))
4890 erank=ASC$(n$(k,4-P))
4900 IF onank<erank OR ASC$(MID$(f$(1,k)
,5,1))=0 THEN GOTO 4930
4910 LOCATE#1,x,y:PRINT#1,x$(k);" ",ASC$(
MID$(f$(1,k),5,1))
4920 y=y+1:IF y=15 THEN y=4:x=14
4930 NEXT
4940 GOTO 490
4950 ' *****
4960 REM ** Player Turn Reports **
4970 ' *****
4980 reports=0:GOSUB 230
4990 IF reports=5 THEN GOTO 5200
5000 GOSUB 160
5010 IF day=3 THEN GOTO 5200
5020 LOCATE#1,2,2:PRINT#1,P$(P,1);" DAY"
,day
5030 LOCATE#1,2,3:PRINT#1,"YESTERDAY'S F
IELD REPORTS"
5040 LOCATE#1,2,6:PRINT#1,"KEY 1 List al
l agents"
5050 LOCATE#1,2,7:PRINT#1,"          and the
in rank"
5060 LOCATE#1,2,9:PRINT#1,"KEY 2 List ag
ents with"
5070 LOCATE#1,2,10:PRINT#1,"          report
s to send and"
5080 LOCATE#1,2,11:PRINT#1,"          how ma
ny reports"
5090 LOCATE#1,2,13:PRINT#1,"KEY 3 Call i
n a report"
5100 LOCATE#1,2,15:PRINT#1,"KEY 4 Finish
with reports"
5110 LOCATE#1,2,16:PRINT#1,"          Give t
oday's orders"
5120 k$=INKEY$:IF k$="" THEN GOTO 5120
5130 IF k$<"1" OR k$>"4" THEN GOTO 5120
5140 IF k$="1" THEN GOSUB 4670:GOTO 4990
5150 IF k$="2" THEN GOSUB 4830:GOTO 4990
5160 IF k$="3" THEN GOSUB 560:reports=rep
orts+1:GOTO 4990
5170 ' *****
5180 REM ** Player Turn Orders **
5190 ' *****
5200 orders=0
5210 IF orders=3 THEN GOTO 5350
5220 GOSUB 160
5230 LOCATE#1,2,2:PRINT#1,P$(P,1);" DAY"
,day
5240 LOCATE#1,2,4:PRINT#1,"TODAY'S ORDER
S"
5250 LOCATE#1,2,6:PRINT#1,"KEY 1 List al
l agents"
5260 LOCATE#1,2,7:PRINT#1,"          and the
in rank"
5270 LOCATE#1,2,9:PRINT#1,"KEY 2 Give an
order"
5280 LOCATE#1,2,11:PRINT#1,"KEY 3 Finish
with orders"
5290 LOCATE#1,2,12:PRINT#1,"          Operat
ions over"
5300 LOCATE#1,2,13:PRINT#1,"          until
tomorrow"
5310 k$=INKEY$:IF k$="" THEN 5310
5320 IF k$<"1" OR k$>"3" THEN 5310
5330 IF k$="1" THEN GOSUB 4670:GOTO 5210
5340 IF k$="2" THEN GOSUB 1480:orders=or
ders+1:GOTO 5210
5350 P=P+1:IF P<3 THEN GOTO 4980
5360 ' *****
5370 REM ** End of Day **
5380 ' *****
5390 GOSUB 5550
5400 day=day+1
5410 FOR k=1 TO 16
5420 s$(1,k)=s$(2,k)
5430 s$(2,k)=s$(3,k)
5440 NEXT:stack=1
5450 m$="" :FOR k=1 TO 13:n$=m$+CHR$(0):N
EXT
5460 FOR k=1 TO 36
5470 f$(1,k)=f$(2,k)
5480 f$(2,k)=n$(k,4)+m$
5490 NEXT
5500 P=1
5510 GOTO 4980
5520 ' *****
5530 REM ** Execute Orders **
5540 ' *****
5550 CLS
5560 GOSUB 160
5570 LOCATE#1,2,2:PRINT#1,"END OF DAY";d
ay:CHR$(0);"TREACHERY"
5580 GOSUB 6210
5590 FOR k=1 TO 6:FOR j=1 TO 5:o$(k,j)=0:
NEXT:NEXT
5600 no=0
5610 FOR k=1 TO 36
5620 o1=ASC$(n$(k,5)):IF o1=0 THEN GOTO 5
700
5630 no=no+1
5640 o(no,1)=ASC$(LEFT$(s$(3,o1),1))
5650 o(no,2)=ASC$(MID$(s$(3,o1),2,1))
5660 o(no,3)=ASC$(MID$(s$(3,o1),5,1))
5670 o(no,4)=ASC$(MID$(s$(3,o1),6,1))
5680 o(no,5)=ASC$(MID$(s$(3,o1),3,1))
5690 n$(k,5)=CHR$(0)
5700 NEXT
5710 y=4
5720 FOR o=1 TO no:IF o(o,1)=9 THEN GOSU
B 6350
5730 NEXT
5740 FOR o=1 TO no:IF o(o,1)=1 THEN GOSU
B 6520
5750 NEXT
5760 FOR o=1 TO no:IF o(o,1)=5 THEN GOSU
B 6630
5770 NEXT
5780 FOR o=1 TO no:IF o(o,1)=6 THEN GOSU
B 6750
5790 NEXT
5800 FOR o=1 TO no:IF o(o,1)=3 THEN GOSU
B 6980
5810 NEXT
5820 FOR o=1 TO no:IF o(o,1)=4 THEN GOSU
B 7210
5830 NEXT
5840 FOR o=1 TO no:IF o(o,1)=2 THEN GOSU
B 7290
5850 NEXT
5860 FOR o=1 TO no:IF o(o,1)=8 THEN GOSU

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B 7440
5870 NEXT
5880 FOR o=1 TO no:IF o(o,1)=7 THEN GOSU
E 7520
5890 NEXT
5900 FOR k=1 TO 36
5910 IF ASC(MID$(f$(2,k),2,1))<>0 THEN f
$(2,k)=LEFT$(f$(2,k),4)+CHR$(ASC(MID$(f
$(2,k),5,1))+1)+MID$(f$(2,k),6)
5920 NEXT
5930 LOCATE#1,2,y:PRINT#1,"3 days ago SC
HWEINSTEIN":y=y+1
5940 LOCATE#1,2,y:PRINT#1,"Was seen in "
,u$(s(4)):y=y+1
5950 IF bcon=2 THEN GOTO 5970
5960 LOCATE#1,2,y:PRINT#1,"BEACON ON in
":u$(bcloc):y=y+1
5970 IF bta9=0 THEN GOTO 6000
5980 LOCATE#1,2,y:PRINT#1,"FIRING BUTTON
detected":y=y+1
5990 LOCATE#1,2,y:PRINT#1,"in "u$(btloc
):y=y+1
6000 IF expLod=1 THEN GOTO 6120
6010 d=VAL(MID$(z$(manloc),bcloc,1))
6020 IF d=0 AND bcon=1 THEN GOTO 6110
6030 n=0:FOR k=1 TO 8
6040 IF MID$(y$(manloc),k,1)<>" " THEN n
=n+1
6050 NEXT
6060 r=INT(RND*8)+1
6070 IF bcon=2 THEN manloc=ASC(MID$(y$(m
anloc),r,1))-64:GOTO 6110
6080 c=ASC(MID$(y$(manloc),r,1))-64
6090 IF VAL(MID$(z$(c),bcloc,1))=d THEN
GOTO 6060
6100 manloc=c
6110 LOCATE#1,2,y:PRINT#1,"MANDROID in "
,u$(manloc):y=y+1
6120 IF s(1)<>18 AND s(1)<>25 THEN GOTO
490
6130 IF s(1)=18 THEN LOCATE#1,2,y:PRINT#
1,"SCHWEINSTEIN IN LONDON":y=y+2:LOCATE#
1,2,y:PRINT#1,"MIG HAVE WON THE GAME":p=
1
6140 IF s(1)=25 THEN LOCATE#1,2,y:PRINT#
1,"SCHWEINSTEIN IN MOSCOW":y=y+2:LOCATE#
1,2,y:PRINT#1,"THE KGB HAVE WON THE GAME
":p=2
6150 REM
6160 GOTO 6160
6170 STOP
6180 *****
6190 REM ** Move Schweinstein **
6200 *****
6210 FOR k=4 TO 2 STEP-1
6220 s(k)=s(k-1)
6230 NEXT
6240 IF schwa9=0 THEN RETURN
6250 n=0:FOR k=1 TO 8
6260 IF MID$(y$(s(1)),k,1)<>" " THEN n=n+1
6270 NEXT
6280 r=INT(RND*8)+1
6290 c=ASC(MID$(y$(s(1)),r,1))-64
6300 IF c=s(3) OR c=18 OR c=25 THEN 6280
6310 s(1)=c:RETURN
6320 *****
6330 REM ** Explode Mindbomb **
6340 *****
6350 IF expLod=1 THEN RETURN
6360 a9=o(o,2):IF bta9<a9 THEN ob=2:GOT
O 6900

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6370 LOCATE#1,2,y:PRINT#1,"MIND-BOMB exP
lodes in":y=y+1
6380 LOCATE#1,2,y:PRINT#1, u$(manloc):y=
y+1
6390 IF manloc=18 THEN y=y+1:LOCATE#1,2,
y:PRINT#1,"THE KGB HAVE WON THE GAME":p=
2:GOTO 6150
6400 IF manloc=25 THEN y=y+1:LOCATE#1,2,
y:PRINT#1,"MIG HAVE WON THE GAME":p=1:GO
TO 6150
6410 FOR k=1 TO 36
6420 IF ASC(n$(k,1))<>manloc THEN 6470
6430 n$(k,4)=CHR$(0)
6440 IF bta9=k THEN bta9=0
6450 IF bca9=k THEN bca9=0
6460 IF schwa9=k THEN schwa9=0
6470 NEXT
6480 expLod=1:RETURN
6490 *****
6500 REM ** Go to City **
6510 *****
6520 a9=o(o,2):c=o(o,3)
6530 IF ASC(n$(a9,4))=0 THEN RETURN
6540 n$(a9,1)=CHR$(c)
6550 IF bta9=a9 THEN btloc=c
6560 IF bca9=a9 THEN bcloc=c
6570 IF schwa9=a9 THEN s(1)=c
6580 LOCATE#1,2,y:PRINT#1,x$(a9):" go to
":u$(c)
6590 y=y+1:RETURN
6600 *****
6610 REM ** Hide Object **
6620 *****
6630 a9=o(o,2):ob=o(o,3)
6640 IF ASC(n$(a9,4))=0 THEN RETURN
6650 ON ob GOTO 6660,6680,6700
6660 IF schwa9<a9 THEN GOTO 6900
6670 schwa9=0:RETURN
6680 IF bta9<a9 THEN GOTO 6900
6690 bta9=0:RETURN
6700 IF bca9<a9 THEN GOTO 6900
6710 bca9=0:RETURN
6720 *****
6730 REM ** Transfer Object **
6740 *****
6750 a9=o(o,2):ob=o(o,3):tol=o(o,4):IF a
9=tol THEN RETURN
6760 IF ASC(n$(a9,4))=0 OR ASC(n$(tol,4)
)=0 THEN RETURN
6770 fc=ASC(n$(a9,1)):tc=ASC(n$(tol,1))
6780 IF MID$(z$(fc),bc,1)<>"1" THEN RETUR
N
6790 ON ob GOTO 6800,6830,6860
6800 IF schwa9<a9 THEN GOTO 6900
6810 schwa9=tol:s(1)=tc
6820 GOTO 6880
6830 IF bta9<a9 THEN GOTO 6900
6840 bta9=tol:btloc=tc
6850 GOTO 6880
6860 IF bca9<a9 THEN GOTO 6900
6870 bca9=tol:bcloc=tc
6880 f$(2,tol)=LEFT$(f$(2,tol),1)+CHR$(1
3)+CHR$(ob)+CHR$(a9)+MID$(f$(2,tol),5)
6890 RETURN
6900 IF o(o,1)=4 THEN GOTO 6930
6910 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(14)
+CHR$(ob)+MID$(f$(2,a9),4)
6920 RETURN
6930 f$(2,tol)=LEFT$(f$(2,tol),1)+CHR$(1
4)+CHR$(ob)+MID$(f$(2,tol),4)
6940 RETURN

```



```

6950 ' *****
6960 REM ** Search City **
6970 ' *****
6980 a9=o(o,2):c=o(o,3)
6990 IF ASC(n$(a9,4))=0 THEN RETURN
7000 s1=0:FOR k=3 TO 2 STEP-1
7010 IF s<k=c THEN s1=k
7020 NEXT
7030 IF s1=0 THEN GOTO 7050
7040 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(12)
+CHR$(day+1-s1)+CHR$(c)+MID$(f$(2,a9),5)
7050 IF s1>c THEN GOTO 7100
7060 IF schwa9=0 THEN schwa9=a9:f$(2,a9)
=LEFT$(f$(2,a9),1)+CHR$(10)+MID$(f$(2,a9)
,3):GOTO 7080
7070 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(11)
+MID$(f$(2,a9),3)
7080 f$(2,a9)=LEFT$(f$(2,a9),2)+CHR$(1)+
CHR$(c)+MID$(f$(2,a9),5)
7090 RETURN
7100 IF btloc<c OR btag<0 THEN GOTO 71
30
7110 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(10)
+CHR$(2)+CHR$(c)+MID$(f$(2,a9),5)
7120 btag=a9
7130 IF bcloc<c OR bcon=1 THEN RETURN
7140 IF bca9=0 THEN bca9=a9:f$(2,a9)=LEF
T$(f$(2,a9),1)+CHR$(10)+MID$(f$(2,a9),3)
7150 GOTO 7160
7150 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(11)
+MID$(f$(2,a9),3)
7160 f$(2,a9)=LEFT$(f$(2,a9),2)+CHR$(3)+
CHR$(c)+MID$(f$(2,a9),5)
7170 RETURN
7180 ' *****
7190 REM ** Steal Object **
7200 ' *****
7210 to1=o(o,2):ob=o(o,3):a9=o(o,4):IF a
9=to1 THEN RETURN
7220 GOSUB 6760
7230 IF ASC(MID$(f$(2,to1),2,1))<13 THE
N RETURN
7240 f$(2,a9)=LEFT$(f$(2,a9),1)+CHR$(15)
+MID$(f$(2,a9),3)
7250 RETURN
7260 ' *****
7270 REM ** Kill Agent **
7280 ' *****
7290 a9=o(o,2):to1=o(o,3)
7300 IF a9=to1 THEN RETURN
7310 IF ASC(n$(a9,4))=0 OR ASC(n$(to1,4)
)=0 THEN RETURN
7320 c=ASC(n$(a9,1))
7330 IF ASC(n$(to1,1))<c THEN RETURN
7340 n$(to1,4)=CHR$(0)
7350 IF btag=to1 THEN btag=0
7360 IF bca9=to1 THEN bca9=0
7370 IF schwa9=to1 THEN schwa9=0
7380 LOCATE#1,2,y:PRINT#1,x$(to1)," is e
liminated"
7390 y=y+1
7400 RETURN
7410 ' *****
7420 REM ** Switch Beacon **
7430 ' *****
7440 a9=o(o,2):on1=o(o,3)
7450 IF ASC(n$(a9,4))=0 THEN RETURN
7460 IF bca9>a9 THEN ob=3:GOTO 6900
7470 bcon=on1
7480 RETURN
7490 ' *****
7500 REM ** Change Status **
7510 ' *****
7520 a9=o(o,2):p1=o(o,5)
7530 IF ASC(n$(a9,4))=0 THEN RETURN
7540 orank=ASC(n$(a9,p1+1))
7550 erank=ASC(n$(a9,4-p1))
7560 IF erank>orank THEN RETURN
7570 n$(a9,4)=CHR$(o(o,3))
7580 RETURN
7590 ' *****
7600 REM **Hard Copy to Printer **
7610 ' *****
7620 PRINT#8,CHR$(13):a%=0
7630 FOR k2=5 TO 19
7640 FOR k1=11 TO 36
7650 LOCATE k1,k2
7660 CALL copychar,@a%
7670 PRINT#8,CHR$(a%);
7680 NEXT
7690 PRINT#8
7700 NEXT
7710 RETURN
7720 ' *****
7730 REM ** Error Trapping **
7740 ' *****
7750 LOCATE 1,24:PRINT"Error";ERR;"in LI
NE";ERL
7760 END
7770 ' *****
7780 REM ** Z%(array) DATA **
7790 ' *****
7800 RESTORE 7810:FOR k=1 TO 26:READ z%(
k):NEXT:RETURN
7810 DATA "03222223233444213111332232"
7820 DATA "30124322211211234332314223"
7830 DATA "21023323212322124321314123"
7840 DATA "22202212212333223111332133"
7850 DATA "24320223233334311122131321"
7860 DATA "23322011222343422123341343"
7870 DATA "2221210131123232122332233"
7880 DATA "32323110421232433233432334"
7890 DATA "22222334033223113221213211"
7900 DATA "31113212301222234222423134"
7910 DATA "31223211310121334233323223"
7920 DATA "42333322221011333343224512"
7930 DATA "4123433222101233443214312"
7940 DATA "41234322321110344343324323"
7950 DATA "22123434123323024321314222"
7960 DATA "13221223133334202121222221"
7970 DATA "34431233344334420231314422"
7980 DATA "1331111222343312012231232"
7990 DATA "13212223234442231013322233"
8000 DATA "12112323123333113210323122"
8010 DATA "33331334243223321233022411"
8020 DATA "31133433122212123332204212"
8030 DATA "24421122333444421123240332"
8040 DATA "22113323212333224221423033"
8050 DATA "32222433132112222332113301"
8060 DATA "23331334143223212232122310"
8070 ' *****
8080 REM ** Screen Copy Machine Code **
8090 ' *****
8100 RESTORE 8160
8110 MEMORY HIMEM-12
8120 copychar=HIMEM+1
8130 FOR address=copychar TO copychar+10
8140 READ byte:POKE address,byte
8150 NEXT
8160 DATA &c0,&b0,&b1,&b2,&b3,&b4,&b5,&b6,&b7,&b8,&b9
8170 RETURN

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```

870      NEXT
880      COLOUR 129:COLOUR 0
880      PRINT TAB(19,25):CHR129
890      VDU 23,128,170,171,187,255,255,
255,255,255
900      COLOUR 128:COLOUR 2:PRINT TAB(0,
100):CHR128
910      VDU 23,128,255,267,52,52,52,52,
247,255
920      COLOUR 128
930      COLOUR 3:PRINT TAB(8,6):CHR128:
" "
940      " "CHR128
950      COLOUR 1:PRINT TAB(5,6)" "
960      " "
970      COLOUR 129:COLLOUR 0:PRINT TAB(5,
17):CHR129
980      COLOUR 3:PRINT TAB(0,5)" "CAGDET
980      DEFFROG 0
990      IF LA=86 TO 760 STEP 1
990      SOUND 1.3,(LA-850)/6.1
990      IF LA<510 THEN SCOO 0.1
990      IF LA>510 AND LA<970 THEN SCOO
L 0.2
1010
1010      MOVE
1020      IF LA=970 THEN SCOO 0.1
1030      MOVE
1040      DRAW LA,920
1050      NEXT
1060      DEFFROG 0
1060      VDU 23,128,170,170,127,127,63.3,
1.15,3
1060      VDU 23,129,165,165,255,255,255,
255,255,255
1080      VDU 23,130,85,85,254,254,252,24,
8,240,192
1080      VDU 23,131,2,4,8,28,82.0,0.0
1100      VDU 23,132,128,64,3,16,56,84,0
0
1110      VDU 23,133,0,0,1.1,57,61,127,12
7
1120      VDU 23,134,228,255,153,169,25
79,66,195
1140      VDU 23,135,0,0,128,128,156,188,
254,254
1140      VDU 23,136,127,63,63,31,15,4,7
1150      VDU 23,137,231,255,255,255,126,
255,255,255
1160      VDU 23,138,254,252,252,248,28,2
3,224,224
1170      VDU 23,139,126,60,60,28,0,0,0,0
0
1180      VDU 23,140,6,168,60,28,0,0,0,0
0
1190      VDU 23,141,0,0,1.1,9,13,31,3
1
1200      VDU 23,142,0,0,128,128,144,176
168
1210      VDU 23,143,31,15,15,7,7,4,7,7
1220      VDU 23,144,248,240,240,224,224,
224,224
1230      VDU 23,145,56,120,255,255,255,1
26,56,0
1240
1250      DEFFROG 0
1260      COLOUR 7
1270      IF H=0 THEN CH=2
1280      IF H=2 THEN CH=3
1290      IF H=3 THEN CH=4
1300      IF H=4 THEN CH=5
1310      IF CH=2 THEN PROC1C
1320      IF CH=3 THEN PROC1C:PROC1D
1330      IF CH=4 THEN PROC1C:PROC1C
1340      IF CH=5 THEN PROC1C:PROC1C:PRO
C
1350
1350      DEFFROG 0
1360      DEFFROG 1
1370      COLOUR 2
1380      PRINT TAB(0,17):CHR128:CHR129:
CHR130
1390      PRINT TAB(10,17):CHR128:CHR129
1400      PRINT TAB(10,18):CHR131" " "CHR1
31
1410      PRINT TAB(16,18):CHR131" " "CHR1
31

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1132      COLOUR 3
1420      PRINT TAB(0.15)CHR$133:CHR$134:
1430      CHR$135
1440      PRINT TAB(0.16)CHR$136:CHR$137:
1450      CHR$138
1460      PRINT TAB(1.15)CHR$133:CHR$134:
1470      CHR$135
1480      PRINT TAB(1.16)CHR$136:CHR$137:
1490      CHR$138
1500      PRINT TAB(1.17)CHR$139:CHR$140:
1510      CHR$141
1520      PRINT TAB(1.18)CHR$142:CHR$143:
1530      CHR$144
1540      PRINT TAB(1.19)CHR$145:CHR$146:
1550      CHR$147
1560      PRINT TAB(1.20)CHR$148:CHR$149:
1570      CHR$150
1580      PRINT TAB(1.21)CHR$151:CHR$152:
1590      CHR$153
1600      PRINT TAB(1.22)CHR$154:CHR$155:
1610      CHR$156
1620      PRINT TAB(1.23)CHR$157:CHR$158:
1630      CHR$159
1640      PRINT TAB(1.24)CHR$160:CHR$161:
1650      CHR$162
1660      PRINT TAB(1.25)CHR$163:CHR$164:
1670      CHR$165
1680      PRINT TAB(1.26)CHR$166:CHR$167:
1690      CHR$168
1700      PRINT TAB(1.27)CHR$169:CHR$170:
1710      CHR$171
1720      PRINT TAB(1.28)CHR$172:CHR$173:
1730      CHR$174
1740      PRINT TAB(1.29)CHR$175:CHR$176:
1750      CHR$177
1760      PRINT TAB(1.30)CHR$178:CHR$179:
1770      CHR$180
1780      PRINT TAB(1.31)CHR$181:CHR$182:
1790      CHR$183
1800      PRINT TAB(1.32)CHR$184:CHR$185:
1810      CHR$186
1820      PRINT TAB(1.33)CHR$187:CHR$188:
1830      CHR$189
1840      PRINT TAB(1.34)CHR$190:CHR$191:
1850      CHR$192
1860      PRINT TAB(1.35)CHR$193:CHR$194:
1870      CHR$195
1880      PRINT TAB(1.36)CHR$196:CHR$197:
1890      CHR$198
1900      PRINT TAB(1.37)CHR$199:CHR$200:
1910      CHR$201
1920      PRINT TAB(1.38)CHR$202:CHR$203:
1930      CHR$204
1940      PRINT TAB(1.39)CHR$205:CHR$206:
1950      CHR$207
1960      PRINT TAB(1.40)CHR$208:CHR$209:
1970      CHR$210
1980      PRINT TAB(1.41)CHR$211:CHR$212:
1990      CHR$213
2000      PRINT TAB(1.42)CHR$213:CHR$214:
2010      CHR$215
2020      PRINT TAB(1.43)CHR$216:CHR$217:
2030      CHR$218
2040      PRINT TAB(1.44)CHR$219:CHR$220:
2050      CHR$221
2060      PRINT TAB(1.45)CHR$222:CHR$223:
2070      CHR$224
2080      PRINT TAB(1.46)CHR$225:CHR$226:
2090      CHR$227
2100      PRINT TAB(1.47)CHR$228:CHR$229:
2110      CHR$230
2120      PRINT TAB(1.48)CHR$231:CHR$232:
2130      CHR$233
2140      PRINT TAB(1.49)CHR$234:CHR$235:
2150      CHR$236
2160      PRINT TAB(1.50)CHR$237:CHR$238:
2170      CHR$239
2180      PRINT TAB(1.51)CHR$240:CHR$241:
2190      CHR$242
2200      PRINT TAB(1.52)CHR$243:CHR$244:
2210      CHR$245
2220      PRINT TAB(1.53)CHR$246:CHR$247:
2230      CHR$248
2240      PRINT TAB(1.54)CHR$249:CHR$250:
2250      CHR$251
2260      PRINT TAB(1.55)CHR$252:CHR$253:
2270      CHR$254
2280      PRINT TAB(1.56)CHR$255:CHR$256:
2290      CHR$257
2300      PRINT TAB(1.57)CHR$258:CHR$259:
2310      CHR$260
2320      PRINT TAB(1.58)CHR$261:CHR$262:
2330      CHR$263
2340      PRINT TAB(1.59)CHR$264:CHR$265:
2350      CHR$266
2360      PRINT TAB(1.60)CHR$267:CHR$268:
2370      CHR$269
2380      PRINT TAB(1.61)CHR$270:CHR$271:
2390      CHR$272
2400      PRINT TAB(1.62)CHR$273:CHR$274:
2410      CHR$275
2420      PRINT TAB(1.63)CHR$276:CHR$277:
2430      CHR$278
2440      PRINT TAB(1.64)CHR$279:CHR$280:
2450      CHR$281
2460      PRINT TAB(1.65)CHR$282:CHR$283:
2470      CHR$284
2480      PRINT TAB(1.66)CHR$285:CHR$286:
2490      CHR$287
2500      PRINT TAB(1.67)CHR$288:CHR$289:
2510      CHR$290
2520      PRINT TAB(1.68)CHR$291:CHR$292:
2530      CHR$293
2540      PRINT TAB(1.69)CHR$294:CHR$295:
2550      CHR$296
2560      PRINT TAB(1.70)CHR$297:CHR$298:
2570      CHR$299
2580      PRINT TAB(1.71)CHR$300:CHR$301:
2590      CHR$302
2600      PRINT TAB(1.72)CHR$303:CHR$304:
2610      CHR$305
2620      PRINT TAB(1.73)CHR$306:CHR$307:
2630      CHR$308
2640      PRINT TAB(1.74)CHR$309:CHR$310:
2650      CHR$311
2660      PRINT TAB(1.75)CHR$312:CHR$313:
2670      CHR$314
2680      PRINT TAB(1.76)CHR$315:CHR$316:
2690      CHR$317
2700      PRINT TAB(1.77)CHR$318:CHR$319:
2710      CHR$320
2720      PRINT TAB(1.78)CHR$321:CHR$322:
2730      CHR$323
2740      PRINT TAB(1.79)CHR$324:CHR$325:
2750      CHR$326
2760      PRINT TAB(1.80)CHR$327:CHR$328:
2770      CHR$329
2780      PRINT TAB(1.81)CHR$330:CHR$331:
2790      CHR$332
2800      PRINT TAB(1.82)CHR$333:CHR$334:
2810      CHR$335
2820      PRINT TAB(1.83)CHR$336:CHR$337:
2830      CHR$338
2840      PRINT TAB(1.84)CHR$339:CHR$340:
2850      CHR$341
2860      PRINT TAB(1.85)CHR$342:CHR$343:
2870      CHR$344
2880      PRINT TAB(1.86)CHR$345:CHR$346:
2890      CHR$347
2900      PRINT TAB(1.87)CHR$348:CHR$349:
2910      CHR$350
2920      PRINT TAB(1.88)CHR$351:CHR$352:
2930      CHR$353
2940      PRINT TAB(1.89)CHR$354:CHR$355:
2950      CHR$356
2960      PRINT TAB(1.90)CHR$357:CHR$358:
2970      CHR$359
2980      PRINT TAB(1.91)CHR$360:CHR$361:
2990      CHR$362
3000      PRINT TAB(1.92)CHR$363:CHR$364:
3010      CHR$365
3020      PRINT TAB(1.93)CHR$366:CHR$367:
3030      CHR$368
3040      PRINT TAB(1.94)CHR$369:CHR$370:
3050      CHR$371
3060      PRINT TAB(1.95)CHR$372:CHR$373:
3070      CHR$374
3080      PRINT TAB(1.96)CHR$375:CHR$376:
3090      CHR$377
3100      PRINT TAB(1.97)CHR$378:CHR$379:
3110      CHR$380
3120      PRINT TAB(1.98)CHR$381:CHR$382:
3130      CHR$383
3140      PRINT TAB(1.99)CHR$384:CHR$385:
3150      CHR$386
3160      PRINT TAB(2.00)CHR$387:CHR$388:
3170      CHR$389
3180      PRINT TAB(2.01)CHR$390:CHR$391:
3190      CHR$392
3200      PRINT TAB(2.02)CHR$393:CHR$394:
3210      CHR$395
3220      PRINT TAB(2.03)CHR$396:CHR$397:
3230      CHR$398
3240      PRINT TAB(2.04)CHR$399:CHR$400:
3250      CHR$401
3260      PRINT TAB(2.05)CHR$402:CHR$403:
3270      CHR$404
3280      PRINT TAB(2.06)CHR$405:CHR$406:
3290      CHR$407
3300      PRINT TAB(2.07)CHR$408:CHR$409:
3310      CHR$410
3320      PRINT TAB(2.08)CHR$411:CHR$412:
3330      CHR$413
3340      PRINT TAB(2.09)CHR$414:CHR$415:
3350      CHR$416
3360      PRINT TAB(2.10)CHR$417:CHR$418:
3370      CHR$419
3380      PRINT TAB(2.11)CHR$420:CHR$421:
3390      CHR$422
3400      PRINT TAB(2.12)CHR$423:CHR$424:
3410      CHR$425
3420      PRINT TAB(2.13)CHR$426:CHR$427:
3430      CHR$428
3440      PRINT TAB(2.14)CHR$429:CHR$430:
3450      CHR$431
3460      PRINT TAB(2.15)CHR$432:CHR$433:
3470      CHR$434
3480      PRINT TAB(2.16)CHR$435:CHR$436:
3490      CHR$437
3500      PRINT TAB(2.17)CHR$438:CHR$439:
3510      CHR$440
3520      PRINT TAB(2.18)CHR$441:CHR$442:
3530      CHR$443
3540      PRINT TAB(2.19)CHR$444:CHR$445:
3550      CHR$446
3560      PRINT TAB(2.20)CHR$447:CHR$448:
3570      CHR$449
3580      PRINT TAB(2.21)CHR$450:CHR$451:
3590      CHR$452
3600      PRINT TAB(2.22)CHR$453:CHR$454:
3610      CHR$455
3620      PRINT TAB(2.23)CHR$456:CHR$457:
3630      CHR$458
3640      PRINT TAB(2.24)CHR$459:CHR$460:
3650      CHR$461
3660      PRINT TAB(2.25)CHR$462:CHR$463:
3670      CHR$464
3680      PRINT TAB(2.26)CHR$465:CHR$466:
3690      CHR$467
3700      PRINT TAB(2.27)CHR$468:CHR$469:
3710      CHR$470
3720      PRINT TAB(2.28)CHR$471:CHR$472:
3730      CHR$473
3740      PRINT TAB(2.29)CHR$474:CHR$475:
3750      CHR$476
3760      PRINT TAB(2.30)CHR$477:CHR$478:
3770      CHR$479
3780      PRINT TAB(2.31)CHR$480:CHR$481:
3790      CHR$482
3800      PRINT TAB(2.32)CHR$483:CHR$484:
3810      CHR$485
3820      PRINT TAB(2.33)CHR$486:CHR$487:
3830      CHR$488
3840      PRINT TAB(2.34)CHR$489:CHR$490:
3850      CHR$491
3860      PRINT TAB(2.35)CHR$492:CHR$493:
3870      CHR$494
3880      PRINT TAB(2.36)CHR$495:CHR$496:
3890      CHR$497
3900      PRINT TAB(2.37)CHR$498:CHR$499:
3910      CHR$500
3920      PRINT TAB(2.38)CHR$501:CHR$502:
3930      CHR$503
3940      PRINT TAB(2.39)CHR$504:CHR$505:
3950      CHR$506
3960      PRINT TAB(2.40)CHR$507:CHR$508:
3970      CHR$509
3980      PRINT TAB(2.41)CHR$510:CHR$511:
3990      CHR$512
4000      PRINT TAB(2.42)CHR$512:CHR$513:
4010      CHR$514
4020      PRINT TAB(2.43)CHR$515:CHR$516:
4030      CHR$517
4040      PRINT TAB(2.44)CHR$518:CHR$519:
4050      CHR$520
4060      PRINT TAB(2.45)CHR$521:CHR$522:
4070      CHR$523
4080      PRINT TAB(2.46)CHR$524:CHR$525:
4090      CHR$526
4100      PRINT TAB(2.47)CHR$527:CHR$528:
4110      CHR$529
4120      PRINT TAB(2.48)CHR$530:CHR$531:
4130      CHR$532
4140      PRINT TAB(2.49)CHR$533:CHR$534:
4150      CHR$535
4160      PRINT TAB(2.50)CHR$536:CHR$537:
4170      CHR$538
4180      PRINT TAB(2.51)CHR$539:CHR$540:
4190      CHR$541
4200      PRINT TAB(2.52)CHR$542:CHR$543:
4210      CHR$544
4220      PRINT TAB(2.53)CHR$545:CHR$546:
4230      CHR$547
4240      PRINT TAB(2.54)CHR$548:CHR$549:
4250      CHR$550
4260      PRINT TAB(2.55)CHR$551:CHR$552:
4270      CHR$553
4280      PRINT TAB(2.56)CHR$554:CHR$555:
4290      CHR$556
4300      PRINT TAB(2.57)CHR$557:CHR$558:
4310      CHR$559
4320      PRINT TAB(2.58)CHR$560:CHR$561:
4330      CHR$562
4340      PRINT TAB(2.59)CHR$563:CHR$564:
4350      CHR$565
4360      PRINT TAB(2.60)CHR$566:CHR$567:
4370      CHR$568
4380      PRINT TAB(2.61)CHR$569:CHR$570:
4390      CHR$571
4400      PRINT TAB(2.62)CHR$572:CHR$573:
4410      CHR$574
4420      PRINT TAB(2.63)CHR$575:CHR$576:
4430      CHR$577
4440      PRINT TAB(2.64)CHR$578:CHR$579:
4450      CHR$580
4460      PRINT TAB(2.65)CHR$581:CHR$582:
4470      CHR$583
4480      PRINT TAB(2.66)CHR$584:CHR$585:
4490      CHR$586
4500      PRINT TAB(2.67)CHR$587:CHR$588:
4510      CHR$589
4520      PRINT TAB(2.68)CHR$590:CHR$591:
4530      CHR$592
4540      PRINT TAB(2.69)CHR$593:CHR$594:
4550      CHR$595
4560      PRINT TAB(2.70)CHR$596:CHR$597:
4570      CHR$598
4580      PRINT TAB(2.71)CHR$599:CHR$600:
4590      CHR$601
4600      PRINT TAB(2.72)CHR$602:CHR$603:
4610      CHR$604
4620      PRINT TAB(2.73)CHR$605:CHR$606:
4630      CHR$607
4640      PRINT TAB(2.74)CHR$608:CHR$609:
4650      CHR$610
4660      PRINT TAB(2.75)CHR$611:CHR$612:
4670      CHR$613
4680      PRINT TAB(2.76)CHR$614:CHR$615:
4690      CHR$616
4700      PRINT TAB(2.77)CHR$617:CHR$618:
4710      CHR$619
4720      PRINT TAB(2.78)CHR$620:CHR$621:
4730      CHR$622
4740      PRINT TAB(2.79)CHR$623:CHR$624:
4750      CHR$625
4760      PRINT TAB(2.80)CHR$626:CHR$627:
4770      CHR$628
4780      PRINT TAB(2.81)CHR$629:CHR$630:
4790      CHR$631
4800      PRINT TAB(2.82)CHR$632:CHR$633:
4810      CHR$634
4820      PRINT TAB(2.83)CHR$635:CHR$636:
4830      CHR$637
4840      PRINT TAB(2.84)CHR$638:CHR$639:
4850      CHR$640
4860      PRINT TAB(2.85)CHR$641:CHR$642:
4870      CHR$643
4880      PRINT TAB(2.86)CHR$644:CHR$645:
4890      CHR$646
4900      PRINT TAB(2.87)CHR$647:CHR$648:
4910      CHR$649
4920      PRINT TAB(2.88)CHR$650:CHR$651:
4930      CHR$652
4940      PRINT TAB(2.89)CHR$653:CHR$654:
4950      CHR$655
4960      PRINT TAB(2.90)CHR$656:CHR$657:
4970      CHR$658
4980      PRINT TAB(2.91)CHR$659:CHR$660:
4990      CHR$661
5000      PRINT TAB(2.92)CHR$662:CHR$663:
5010      CHR$664
5020      PRINT TAB(2.93)CHR$665:CHR$666:
5030      CHR$667
5040      PRINT TAB(2.94)CHR$668:CHR$669:
5050      CHR$670
5060      PRINT TAB(2.95)CHR$671:CHR$672:
5070      CHR$673
5080      PRINT TAB(2.96)CHR$674:CHR$675:
5090      CHR$676
5100      PRINT TAB(2.97)CHR$677:CHR$678:
5110      CHR$679
5120      PRINT TAB(2.98)CHR$680:CHR$681:
5130      CHR$682
5140      PRINT TAB(2.99)CHR$683:CHR$684:
5150      CHR$685
5160      PRINT TAB(3.00)CHR$686:CHR$687:
5170      CHR$688
5180      PRINT TAB(3.01)CHR$689:CHR$690:
5190      CHR$691
5200      PRINT TAB(3.02)CHR$692:CHR$693:
5210      CHR$694
5220      PRINT TAB(3.03)CHR$695:CHR$696:
5230      CHR$697
5240      PRINT TAB(3.04)CHR$698:CHR$699:
5250      CHR$700
5260      PRINT TAB(3.05)CHR$701:CHR$702:
5270      CHR$703
5280      PRINT TAB(3.06)CHR$704:CHR$705:
5290      CHR$706
5300      PRINT TAB(3.07)CHR$707:CHR$708:
5310      CHR$709
5320      PRINT TAB(3.08)CHR$710:CHR$711:
5330      CHR$712
5340      PRINT TAB(3.09)CHR$713:CHR$714:
5350      CHR$715
5360      PRINT TAB(3.10)CHR$716:CHR$717:
5370      CHR$718
5380      PRINT TAB(3.11)CHR$719:CHR$720:
5390      CHR$721
5400      PRINT TAB(3.12)CHR$722:CHR$723:
5410      CHR$724
5420      PRINT TAB(3.13)CHR$725:CHR$726:
5430      CHR$727
5440      PRINT TAB(3.14)CHR$728:CHR$729:
5450      CHR$730
5460      PRINT TAB(3.15)CHR$731:CHR$732:
5470      CHR$733
5480      PRINT TAB(3.16)CHR$734:CHR$735:
5490      CHR$736
5500      PRINT TAB(3.17)CHR$737:CHR$738:
5510      CHR$739
5520      PRINT TAB(3.18)CHR$740:CHR$741:
5530      CHR$742
5540      PRINT TAB(3.19)CHR$743:CHR$744:
5550      CHR$745
5560      PRINT TAB(3.20)CHR$746:CHR$747:
5570      CHR$748
5580      PRINT TAB(3.21)CHR$749:CHR$750:
5590      CHR$751
5600      PRINT TAB(3.22)CHR$752:CHR$753:
5610      CHR$754
5620      PRINT TAB(3.23)CHR$755:CHR$756:
5630      CHR$757
5640      PRINT TAB(3.24)CHR$758:CHR$759:
5650      CHR$760
5660      PRINT TAB(3.25)CHR$761:CHR$762:
5670      CHR$763
5680      PRINT TAB(3.26)CHR$764:CHR$765:
5690      CHR$766
5700      PRINT TAB(3.27)CHR$767:CHR$768:
5710      CHR$769
5720      PRINT TAB(3.28)CHR$770:CHR$771:
5730      CHR$772
5740      PRINT TAB(3.29)CHR$773:CHR$774:
5750      CHR$775
5760      PRINT TAB(3.30)CHR$776:CHR$777:
5770      CHR$778
5780      PRINT TAB(3.31)CHR$779:CHR$780:
5790      CHR$781
5800      PRINT TAB(3.32)CHR$782:CHR$783:
5810      CHR$784
5820      PRINT TAB(3.33)CHR$785:CHR$786:
5830      CHR$787
5840      PRINT TAB(3.34)CHR$788:CHR$789:
5850      CHR$790
5860      PRINT TAB(3.35)CHR$791:CHR$792:
5870      CHR$793
5880      PRINT TAB(3.36)CHR$794:CHR$795:
5890      CHR$796
5900      PRINT TAB(3.37)CHR$797:CHR$798:
5910      CHR$799
5920      PRINT TAB(3.38)CHR$800:CHR$801:
5930      CHR$802
5940      PRINT TAB(3.39)CHR$803:CHR$804:
5950      CHR$805
5960      PRINT TAB(3.40)CHR$806:CHR$807:
5970      CHR$808
5980      PRINT TAB(3.41)CHR$809:CHR$810:
5990      CHR$811
6000      PRINT TAB(3.42)CHR$812:CHR$813:
6010      CHR$814
6020      PRINT TAB(3.43)CHR$815:CHR$816:
6030      CHR$817
6040      PRINT TAB(3.44)CHR$818:CHR$819:
6050      CHR$820
6060      PRINT TAB(3.45)CHR$821:CHR$822:
6070      CHR$823
6080      PRINT TAB(3.46)CHR$824:CHR$825:
6090      CHR$826
6100      PRINT TAB(3.47)CHR$827:CHR$828:
6110      CHR$829
6120      PRINT TAB(3.48)CHR$830:CHR$831:
6130      CHR$832
6140      PRINT TAB(3.49)CHR$833:CHR$834:
6150      CHR$835
6160      PRINT TAB(3.50)CHR$836:CHR$837:
6170      CHR$838
6180      PRINT TAB(3.51)CHR$839:CHR$840:
6190      CHR$841
6200      PRINT TAB(3.52)CHR$842:CHR$843:
6210      CHR$844
6220      PRINT TAB(3.53)CHR$845:CHR$846:
6230      CHR$847
6240      PRINT TAB(3.54)CHR$848:CHR$849:
6250      CHR$850
6260      PRINT TAB(3.55)CHR$851:CHR$852:
6270      CHR$853
6280      PRINT TAB(3.56)CHR$854:CHR$855:
6290      CHR$856
6300      PRINT TAB(3.57)CHR$857:CHR$858:
6310      CHR$859
6320      PRINT TAB(3.58)CHR$860:CHR$861:
6330      CHR$862
6340      PRINT TAB(3.59)CHR$863:CHR$864:
6350      CHR$865
6360      PRINT TAB(3.60)CHR$866:CHR$867:
6370      CHR$868
6380      PRINT TAB(3.61)CHR$869:CHR$870:
6390      CHR$871
6400      PRINT TAB(3.62)CHR$872:CHR$873:
6410      CHR$874
6420      PRINT TAB(3.63)CHR$875:CHR$876:
6430      CHR$877
6440      PRINT TAB(3.64)CHR$878:CHR$879:
6450      CHR$880
6460      PRINT TAB(3.65)CHR$881:CHR$882:
6470      CHR$883
6480      PRINT TAB(3.66)CHR$884:CHR$885:
6490      CHR$886
6500      PRINT TAB(3.67)CHR$887:CHR$888:
6510      CHR$889
6520      PRINT TAB(3.68)CHR$890:CHR$891:
6530      CHR$892
6540      PRINT TAB(3.69)CHR$893:CHR$894:
6550      CHR$895
6560      PRINT TAB(3.70)CHR$896:CHR$897:
6570      CHR$898
6580      PRINT TAB(3.71)CHR$899:CHR$900:
6590      CHR$901
6600      PRINT TAB(3.72)CHR$902:CHR$903:
6610      CHR$904
6620      PRINT TAB(3.73)CHR$905:CHR$906:
6630      CHR$907
6640      PRINT TAB(3.74)CHR$908:CHR$909:
6650      CHR$910
6660      PRINT TAB(3.75)CHR$911:CHR$912:
6670      CHR$913
6680      PRINT TAB(3.76)CHR$914:CHR$915:
6690      CHR$916
6700      PRINT TAB(3.77)CHR$917:CHR$918:
6710      CHR$919
6720      PRINT TAB(3.78)CHR$920:CHR$921:
6730      CHR$922
6740      PRINT TAB(3.79)CHR$923:CHR$924:
6750      CHR$925
6760      PRINT TAB(3.80)CHR$926:CHR$927:
6770      CHR$928
6780      PRINT TAB(3.81)CHR$929:CHR$930:
6790      CHR$931
6800      PRINT TAB(3.82)CHR$932:CHR$933:
6810      CHR$934
6820      PRINT TAB(3.83)CHR$935:CHR$936:
6830      CHR$937
6840      PRINT TAB(3.84)CHR$938:CHR$939:
6850      CHR$940
6860      PRINT TAB(3.85)CHR$941:CHR$942:
6870      CHR$943
6880      PRINT TAB(3.86)CHR$944:CHR$945:
6890      CHR$946
6900      PRINT TAB(3.87)CHR$947:CHR$948:
6910      CHR$949
6920      PRINT TAB(3.88)CHR$950:CHR$951:
6930      CHR$952
6940      PRINT TAB(3.89)CHR$953:CHR$954:
6950      CHR$955
6960      PRINT TAB(3.90)CHR$956:CHR$957:
6970      CHR$958
6980      PRINT TAB(3.91)CHR$959:CHR$960:
6990      CHR$961
7000      PRINT TAB(3.92)CHR$962:CHR$963:
7010      CHR$964
7020      PRINT TAB(3.93)CHR$965:CHR$966:
7030      CHR$967
7040      PRINT TAB(3.94)CHR$968:CHR$969:
7050      CHR$970
7060      PRINT TAB(3.95)CHR$971:CHR$972:
7070      CHR$973
7080      PRINT TAB(3.96)CHR$974:CHR$975:
7090      CHR$976
7100      PRINT TAB(3.97)CHR$977:CHR$978:
7110      CHR$979
7120      PRINT TAB(3.98)CHR$980:CHR$981:
7130      CHR$982
7140      PRINT TAB(3.99)CHR$983:CHR$984:
7150      CHR$985
7160      PRINT TAB(4.00)CHR$986:CHR$987:
7170      CHR$988
7180      PRINT TAB(4.01)CHR$989:CHR$990:
7190      CHR$991
7200      PRINT TAB(4.02)CHR$992:CHR$993:
7210      CHR$994
7220      PRINT TAB(4.03)CHR$995:CHR$996:
7230      CHR$997
7240      PRINT TAB(4.04)CHR$998:CHR$999:
7250      CHR$1000

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EGGS

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RECONNAISSANCE

• QL

Reconnaissance is a contrast to the usual shoot-em-up, high speed arcade games. It is a game which requires ingenuity, care and intelligence to successfully complete and can also be extremely addictive.

The basic aim is simple. You are a member of an elite corps whose assignment is to establish the precise location of four high explosive ordnance stores within an enemy camp prior to a bombing raid. You cannot gain admittance to the camp and so can only prowl about the perimeter.

You have divided the enemy camp into an 8 x 8 grid and it is this grid which forms the basis of your strategy. Each side is denoted by a letter, A-D and each grid square by numbers across the bottom and the top.

You cannot see into the camp as your survey will take place at night. The one item of equipment you have with you is a maser rifle which projects a coherent beam of microwave radiation. Around the perimeter of the camp, which is thoughtfully square, you have placed, at equal intervals, small reflective discs which are wired to your maser computer, these discs being identified as numbers on the sides (fig. 1).

The method of determining the precise location of each ordnance dump is as follows: positioning your rifle at the first co-ordinate you fire a shot. The entry position is shown in the window on the left of the screen e.g. A1. This is followed immediately by the exit co-ordinate which is itself determined from the route taken by the maser beam after being fired.

Fig. 2 shows this more clearly. Here it can be seen that an "invisible" ordnance store is centred on 3,4. Because of its size, each "store" overlaps into the surrounding eight squares and firing a beam into any of the eight squares will produce a different exit co-ordinate. The way it works is this:

A beam entering at A2 (top left) hits the store at 2,3, is reflected at right angles to the left and emerges at D3. The display in the left hand window would read 'A2 : D3'.

A shot entering at D5 is reflected to the

bottom and would emerge at C2.

Entry at C4 would mean exit at B5 and so on.

However, a direct hit, i.e. entry from A3, B4, C3 or D4 would lead to the message "absorbed" being displayed.

From this information it can be deduced that a store exists centred on 3,4. Hah! Obvious, you might think. But what if a second store exists with its centre on the next but one square as shown in fig. 3? The 'store' on 5,4 is contiguous with the one on 3,4 therefore reflecting the beam straight back out at A4.

Even more sneaky, if another "store" were positioned at 7,7 then a beam entering at B5 would bounce at right angles downwards where, at 6,6 it would encounter the top left of the third 'store' and be reflected yet again through ninety degrees bringing the beam back to its original path but displaced by one row downward.

For that manoeuvre the display would read: B5 (entry) : D6 (exit).

If a beam were aimed from C6 then, as it encountered an obstruction so close to the point of origin, it would re-emerge at the same point...

Since the game uses a total of four "stores", the possible combinations are truly mind boggling. Surprisingly, it's not that difficult when you've become used to it!

For each "shot" your score increases by one and the aim is to complete the game with the fewest possible tries. When you think you've located every single store you press <ESC> and a small prompt appears in the window below the grid asking for, first, the x co-ordinate and then the y co-ordinate of each of the four "stores". If you have it right then congratulations are offered but a wrong guess simply tells you you're wrong but does not specify how! Thus you are left to try and eliminate the possibilities.

The game does not allow you to try the same (or a reverse) co-ordinate twice; therefore a pencil is a very useful adjunct when playing this.

The screen display is organised into four windows, the largest of which holds the Grid plan and looks like figure 4. You are

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Fig. 1

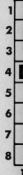
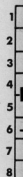


Fig. 3



represented by a turtle graphics arrow which has a handy advantage over a line drawn figure. The turtle draws the arrow in a series of four movements (fig. 5) and the arrow will appear pointing the way in which the turtle is aimed.

Lines 1170 to 1290 draw the arrow and the direction is set by the procedure "Gun" (1080 to 1120) which in turn calls three functions, Gun_x, Gun_y and Gun_r which

return the x and y position and the initial rotation.

The program uses windows, circles, blocks, filled shapes and turtles. In addition, the not inconsiderable calculating and data manipulation power of the QL is used extensively.

Happy spying!

• Ian Kennedy, Ian Williams and Steven Hollywood

Fig. 1

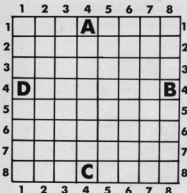


Fig. 2

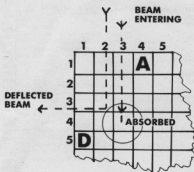


Fig. 3

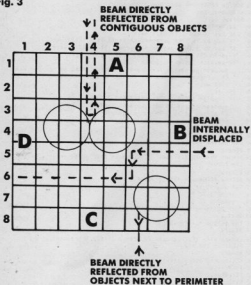
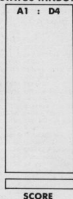
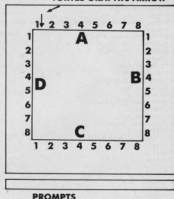


Fig. 4

STATUS WINDOW



TURTLE GRAPHIC ARROW



RECONNAISSANCE

```

100 REMARK
110 REMARK
120 REMARK
130 REMARK
140 REMARK
150 REMARK
160 REMARK
170 REMARK
180 REMARK
190 REMARK
200 REMARK
210 REMARK
220 CLEAR
230 diabo
240 gun gunpos,0
250 REPEAT mainloop
260   move_gun
270   IF key && 64 THEN fire
280   IF key && 8 THEN ass
290   IF key && 32 THEN revealclose_down
300   gun oldpos,0
310   gun gunpos,7
320 END REPEAT mainloop
330 STOP
340 REMARK
350 REMARK *** This routine sets up windows, arrays & variables
360 REMARK
370 DEFINE PROCEDURE diabo
380   box=3
390   tab=4
400   nar=5
410   que=6
420 OPENWbox,scr_512x256x0x0
430 CL@Wbox
440 OPENWbox,scr_288x240x200x0
450 OPENWtab,scr_158x240x40x0
460 OPENWmark,scr_158x124x40x241
470 OPENWque,con_288x124x200x241_10
480 BORDERWbox,1,7,0
490 BORDERWtab,1,4,2
500 BORDERWmark,1,7,4
510 BORDERWque,1,7
520 CL@Hbox
530 CL@Htab
540 CL@Hque
550 CSIZEWtab,1,0
560 CSIZEWmark,2,0
570 INKWmark,7
580 INKWque,4
600 PRINTWmark,"Score"
610 mark=0
620 print_score
630 size=7
640 num_things=4
650 draw_box
660 DIM grid(size+2,size+2),gone((size+1)+4-1),ques((num_things-1),1)
670 fill_grid(num_things)
680 gpos=((1)+pos+0),gunpos=0
690 mov_cue=1
700 END DEFINE diabo
710 REMARK
720 REMARK *** This procedure sets up the game board (Hbox) window
730 REMARK
740 DEFINE PROCEDURE draw_box
750 BLOCKHbox,200,160,40,30,4
760 BLOCKHbox,196,156,42,31,2
770 INKHbox,7
780 CSIZEHbox,0,1
790 FOR a=1 TO 8
800   CURSORHbox,5,10+a*20
810   CSIZEHbox,0,1
820   PRINTHbox,a
830   CURSORHbox,245,10+a*20
840   PRINTHbox,a
850   CSIZEHbox,5,0
860   CURSORHbox,20+a*25,0
870   PRINTHbox,a
880   CURSORHbox,20+a*25,218
890   PRINTHbox,a
900 NEXT a
910 ATBox,0,0
920 CSIZEBox,2,1
930 PAPERBox,5
940 RESTORE 1010
950 FOR a=0 TO 3
960   READ at,x,y
970   CURSORBox,x,y
980   PRINTBox,at
990 NEXT a
1000 END DEFINE draw_box
1010 DATA "A",132,35
1020 DATA "B",215,100
1030 DATA "C",132,165
1040 DATA "D",50,100
1050 REMARK
1060 REMARK *** This proc is used to set the turtle direction
    gun?"

```

```

1070 REMARK
1080 DEFINE PROCEDURE gun(pos,c)
1090   POINTHbox,gun_x(pos),gun_y(pos)
1100   TURNTOHbox,gun_r(pos)
1110   arrow(c)
1120 END DEFINE gun
1130 REMARK
1140 REMARK *** This one is used the turtle graphics to draw an arrow
1150 REMARK *** of colour (col)
1160 REMARK
1170 DEFINE PROCEDURE arrow(col)
1180   INKHbox,col
1190   PENDOWNHbox
1200   MOVEHbox,5
1210   TURNHbox,135
1220   MOVEHbox,5
1230   TURNHbox,135
1240   MOVEHbox,SQRT(18)
1250   TURNHbox,135
1260   MOVEHbox,5
1270   TURNHbox,-45
1280   MOVEHbox,-5
1290 END DEFINE arrow
1300 REMARK
1310 REMARK *** This is used to unscramble the arrows (x_coord,
    position
1320 REMARK *** mainly from the gunpos variable it returns graphic
    coords)
1330 REMARK
1340 DEFINE FUNCTION gun_x(u)
1350   side=0 DIV 8
1360   IF side && 1 THEN RETURN 81-37.5*(side && 2)
1370   IF side=2 THEN RETURN 71.1-u MOD 8*7.8
1380   RETURN 16.5*u MOD 8*7.8
1390 REMARK
1400 REMARK *** Ditto for the y co-ordinate
1410 REMARK
1420 DEFINE FUNCTION gun_y(u)
1430   side=0 DIV 8
1440   IF side=3 THEN RETURN 25-u MOD 8*8.4
1450   IF side=1 THEN RETURN 82.8-u MOD 8*8.4
1460   RETURN 93.3-40*(side && 2)
1470 REMARK
1480 REMARK *** Yet another one to calculate the turtle setting to
    enable
1490 REMARK *** the turtle to be rotated to the right direction
1500 REMARK
1510 DEFINE FUNCTION gun_r(u)
1520   RETURN 270-(u DIV 8)*90
1530 REMARK
1540 REMARK *** This routine does most of the moving of the arrow using
    the
1550 REMARK *** KEYWORD and INKEY functions
1560 REMARK
1570 DEFINE PROCEDURE move_gun
1580   oldpos=gunpos
1590 REPEAT wait
1600   key=KEYWORD(1)
1610   IF key && 104 THEN EXIT wait
1620   IF key && 16 THEN gunpos=((gunpos+1) && 31):EXIT wait
1630   IF key && 2 THEN gunpos=((gunpos-1) && 31):EXIT wait
1640   key=INKEY(0) && " "
1650   IF key(1) INSTR "AaBbCcDd" THEN
    gunpos=((gunpos && 71)+((key(1) INSTR "AaBbCcDd") DIV 2)*8
1660   IF gunpos="oldpos" && 16 THEN gunpos=gunpos--7
1670   IF gunpos="oldpos" && 16 THEN gunpos=gunpos--7
1680   EXIT wait
1690 END IF
1700 IF key(1) INSTR "12345678" THEN
1710   gunpos=((gunpos && 241)+(key(1) INSTR "12345678")-1
1720   IF gunpos && 16 THEN gunpos=gunpos--7
1730   EXIT wait
1740 END IF
1750 END REPEAT wait
1760 END DEFINE move_gun
1770 REMARK
1780 REMARK *** Initialises 'n' BLOBS in the 'grid' array. The more
    the
    harder
1790 REMARK
1800 DEFINE PROCEDURE fill_grid(n)
1810 FOR a=1 TO n
1820   x=IND(1 TO 8)
1830   y=IND(1 TO 8)
1840 IF NOT(grid(x,y)) THEN grid(x,y)=1:ELSE a=a-1
1850 NEXT a
1860 END DEFINE fill_grid
1870 REMARK
1880 REMARK *** Plot is used to draw a circle (representing a
    blob) in the box
1890 REMARK
1900 DEFINE PROCEDURE plot(x,y,c)
1910 INKHbox,c
1920 FILLHbox,1
1930 CIRCLEHbox,gun_x(x),gun_y(y)+8,1-1/4
1940 FILLHbox,0
1950 END DEFINE plot
1960 REMARK
1970 REMARK *** The hub of the whole game, it 'moves' the ball within the
1980 REMARK *** box, calculates and displays enter and exit points

```

1990 M
 2000 H
 2010 I
 2020
 2030
 2040
 2050
 2060
 2070 g
 2080 g
 2090 el
 2100 el
 2110 ac
 2120 IF
 2130
 2140
 2150 E
 2160 IF
 2170
 2180
 2190 E
 2200 IF
 2210 IF
 2220 RE
 2230
 2240
 2250
 2260
 2270
 2280
 2290
 2300
 2310
 2320
 2330
 2340
 2350
 2360
 2370
 2380
 2390
 2400
 2410
 2420
 2430
 2440
 2450
 2460
 2470 E
 2480 w
 2490 IF
 2500
 2510
 2520
 2530 E
 2540 IF
 2550
 2560
 2570
 2580 E
 2590 E
 2600
 2610
 2620 RE
 2630
 2640 RE
 2650 FO
 2660
 2670
 2680
 2690
 2700 RE
 2710 E
 2720 RE
 2730 RE
 2740 RE
 2750 RE
 2760 AT
 2770 ac
 2780 PR
 2790 EN
 2800 RE
 2810 RE
 2820 RE
 2830 RE
 2840 RE
 2850 RE
 2860 DE
 2870 w

OPERATION KRISTOS

• BBCB

A strange alien ship has been picked up on radar heading towards the Earth.

After three days it goes into orbit and fails to respond to radio messages. A preliminary scan reveals a large carbon dioxide laser aimed at London.

The Royal Navy attacks but all ships are lost when a strange wave of pink light radiates out from the ship.

Now the plan has been decided. A Space Marine must dock with the ship, plant a large mine and then teleport back before it explodes. Only then can the Earth be saved from the alien menace that hangs overhead.

You have been chosen for the mission and dock with the ship armed with only a teleport bracelet and a limpit mine that must be attached to the laser to ensure maximum destruction.

The following commands may be used but there are more: GET, DROP, INVENTORY, SCORE, EXAMINE, TELEPORT, PRIME (for the mine).

To move, use the following abbreviations: N—to go North, S—to go South, E—to go East, W—to go West, U—to go Up, D—to go Down.

Any other word may be abbreviated to four letters.

The symbol, which appears in a number of lines, is the up-arrow. This is to the right of !=' on the keyboard.

• JW Roynling

10 DATA "YOU'RE IN YOUR SPACESHIP BUT IT HAS BEEN WRECKED PROBABLY WHEN LANDIN G ON AUTO PILOT. AN EXIT LEADS NORTH"

20 DATA "YOU ARE STANDING IN A SHINY. METALLIC VACUUM TUBE. YOU CAN GO NORTH AND SOUTH"

30 DATA "YOU'RE STANDING IN A AIRLOCK . TO THE WEST IS A SHINY DOOR. TO THE SOUTH IS A CORRIDOR. THE DOOR HAS NO VIS IBLE MEANS OF BEING OPENED."

40 DATA "YOU ARE IN A STEEL CORRIDOR. THERE IS A SIDE EXIT TO THE EAST AND TH E CORRIDOR LEADS NORTH AND SOUTH."

50 DATA "YOU ARE IN A DARK STOREROOM. IT IS EXTREMELY COLD AND SMELLY IN HERE. THE ONLY EXIT IS TO THE NORTH."

60 DATA "YOU ARE STANDING ON A METAL GRILL ABOVE A CHANNEL IN THE FLOOR ABOUT 6 INCHES BELOW. THERE IS AN EXIT NORTH WARDS OVER THE GRILL AND A CORRIDOR LEA DS SOUTH."

70 DATA "YOU ARE ON THE FLIGHT DECK O F THE SHIP A LARGE VISUAL DISPLAY SHOWS A PICTURE OF THE EARTH AND TO YOUR LEF T IS A CONTROL PANEL. EXITS LEAD NOR

TH. SOUTH & EAST."

80 DATA "YOU'RE IN THE CONTROL ROOM. A LARGE BANK OF COMPUTERS ADORN THE NORTH WALL. EXITS LEAD EAST AND WEST."

90 DATA "YOU ARE IN THE REST ROOM. THE RE IS A BED HERE AND A SMALL, BEDSIDE TAB LE. AN SINGLE EXIT LEADS WEST."

100 DATA "YOU'RE IN THE CAPTAIN'S CABI N. RICH, SOFT CARPET COVERS THE FLOOR AND THE WALLS ARE TASTEFULLY PAINTED IN LI GHT SHADES. THERE IS A LARGE BED TO THE LEFTHAND SIDE. THE ONLY EXIT IS TO THE SOUTH"

110 DATA "YOU ARE IN A DARKISH ROOM AN D ALL AROUND YOU ARE LARGE BANKS OF LEAD ACID BATTERIES. THERE IS A DISTINC T SMELL OF GREASE HERE. UP IS A ROPE AND OTHER EXITS LEAD EAST AND SOUTH."

120 DATA "YOU'RE IN A SPARSE ROOM. AN E XIT LEADS EAST AND A RUBBISH CHUTE GOE S DOWN THROUGH THE FLOOR."

130 DATA "YOU ARE STANDING ON ONE SIDE OF A CHASM TO THE SOUTH THAT CAN BE CRO SSED ON AN EXTENDING BRIDGE. A LARGE RED BUTTON STICKS OUT FROM THE WALL."

140 DATA "YOU ARE STANDING ON ONE SIDE OF A CHASM TO THE NORTH. AN EXTENDED BRI DGE LEADS NORTH. ANOTHER EXIT IS TO THE SOUTH."

150 DATA "YOU ARE IN A RUBBISH COMPRES SOR. RUBBISH LIES EVERYWHERE AND THERE IS A SMELL OF DECAYING ORGANIC MATTER. THE COMPRESSOR CONTINUES SOUTHWARDS. ABOVE I S A CHUTE WHICH IS OUT OF REACH."

160 DATA "YOU ARE IN A RUBBISH COMPRES SOR. A STEP LADDER LEADS UPWARDS. THE COM PRESSOR CONTINUES NORTH."

170 DATA "YOU ARE A T-JUNCTION OF PASS AGES GOING NORTH, EAST AND WEST."

180 DATA "YOU'RE AT A DEAD END. THERE I S A HATCH IN THE WEST WALL. THE ONLY EX IT IS EAST."

190 DATA "YOU ARE IN A HEXAGONAL CORRI DOR. THE WALLS ARE HEAVILY CORRODED A ND DIGESTIVE JUICES LIE IN POOLS ON THE F LOOR. EXITS LEAD EAST AND WEST."

200 DATA "YOU ARE IN A CONTROL CENTRE. THERE IS A LARGE DOME OVERHEAD. A ENORMO US LASER GUN IS AIMED AT A HOLE IN THE DO ME TOWARDS THE EARTH."

210 DATA "YOU ARE IN A SMALL ROOM. A CO MPUTER IS PLUGGED IN ON THE WEST WALL. AN EXIT LEADS EAST."

220 DATA "YOU ARE IN A SMALL ROOM. ALL AROUND IS DEBRIS. IT LOOKS AS IF THERE HAS BEEN AN EXPLOSION. AN EXIT LEADS EAST ."

230 DATA "YOU ARE IN A DARKISH ROOM AN D ALL AROUND YOU IS THE REMAINS OF LEAD A CID BATTERIES. THERE IS A DISTINC T SMELL OF GREASE HERE. UP IS A ROPE AND OTHER EXITS LEAD EAST AND SOUTH."

240 RESTORE 250: F0RN=&C00 TO &C12: READ

```

A: ?N=A: NEXT
250 DATA &A0, &A00, &B9, &00, &0A, &A9, &1B, &
C9, &16, &F0, &07, &20, &E3, &FF, &C8, &4C, &02, &
OC, &60
260 DIM O(23), OS(23): PROCobj: MODEY: IX=
2: RN=1: DIM D(6, 24): BN=0: TX=0: PROCoomdat
&: GOSUB1050
270 REPEAT: INPUT: "INS: UNTIL LEN(INS) >
0
280 NS="": VS=""
290 VS=LEFT$(INS, 4)
300 L=3: REPEAT: L=L+1: UNTIL L>LEN(INS)
OR ASC(MID$(INS, L, 1))=32
310 REPEAT: L=L+1: UNTIL L>LEN(INS) OR A
SC(MID$(INS, L, 1))<>32
320 NS=MID$(INS, L, 4)
330 P=INSTR(VS, " ")
340 IF P<>0 VS=LEFT$(VS, P-1)
350 P=INSTR(NS, " ")
360 IF P<>0 NS=LEFT$(NS, P-1)
370 GOTO1880
380
390 DX=V
400 IF D(DX, RN)=0 PRINT "YOU CAN'T GO T
HAT WAY": RETURN
410 IF D(DX, RN)>34 GOTO1690
420 IF BN=1 BN=0
430 RN=DX, RN: GOSUB 1050: RETURN
440 IF N>14 PRINT "YOU CAN'T PICK THAT
UP": RETURN
450 IF O(N)<>RN PRINT "I DON'T SEE THAT
HERE": RETURN
460 IF IX>5 PRINT "YOU'RE CARRYING TOO
MUCH": RETURN
470 IF N=8 AND RN=16 PRINT "IT'S WEDGED
TIGHT": RETURN
480 IF N=4 AND LEN(OS(4))=34 PRINT "IT'
S TIED": RETURN
490 IFRN=5 AND O(8)<>-1 OR RN=5 AND O(
8)="ZU: NUWRO: OTIXS" PRINT "IT'S TOO DARK
TO SEE": RETURN
500 IF N=5 AND LEN(O(5))>11 AND O(6)
<>-1 PROCd("BTN: XZU<O: I'XZS: RO": RETURN
510 IF N=5 AND LEN(O(5))>11 AND O(6)
=-1 PROCd("BTN: STTP: RO: TNO: LROS: BTNI: LRI
"): O(5)=-1: IX=IX+1: O(5)="Z: YWZXP: YTC":
PRINT "OK": RETURN
520 O(N)=-1: IX=IX+1: PRINT "OK": RETURN
530 IF N>15 PRINT "I NEVER LET YOU PICK
THAT UP": RETURN
540 IF O(N)<>-1 PRINT "YOU'RE NOT CARRY
ING IT": RETURN
550 IF N=11 AND RN=13 AND O(22)=99 PRO
Cd("OS": _ITR: Y"KH: _OS: KI"HH"HS: _YN
OOTUZ: HXZUU": I: XTV"HTU: _OS: U: I"OIZXOH50
S": _VIR_": RH: CO"U_": _): IX=IX-1: O(11)=1
3: O(22)=13: D(2, 13)=14: RETURN
560 IX=IX-1: O(N)=RN: PRINT "OK": RETURN
570 PRINT "YOU ARE CARRYING: "IF IX=0 P
RINT "NOT A LOT": RETURN
580 FOR loop=1 TO 14
590 IF O(loop)=-1 PROCd(OS(loop))
600 NEXT
610 PRINT: RETURN
620 IF RN<>11 OR N<>32 PRINT "DON'T BE
A VANDAL": RETURN
630 IF O(10)<>-1 PRINT "WHAT WITH?": RET
URN
640 PROCd("BTN: HVZHS: NK: OS": YZOO"IR" H:
LROS: OS": _:: _ZU: ITR: W""): RN=23: D(1, 13)
=23: D(6, 10)=23: D(3, 12)=23
650 RETURN
660 IF N<>20 OR RN<>19 PRINT "DON'T BE
NASTY": RETURN
670 IF O(21)=19 PRINT "I CAN ONLY KILL
HIM ONCE": RETURN
680 PRINT "LOVE TO BUT HOW?": RETURN
690 IF N<>25 GOTO&A0
700 BN=1: PRINT "OK": RETURN
710 IF N=0 PRINT "SAY WHAT?": RETURN
720 PRINT "OK": PRINT MID$(INS, L, 255)
730 IF RN<>3 OR D(4, 3)=4 RETURN
740 PROCd("OS": _TTI: RH: MTRX": TK"IZO": _:
ZU: RO: HWR_ "HTK"U")
750 O(15)=3: D(4, 3)=4
760 PRINT: RETURN
770 IF O(8)<>-1 PRINT "YOU'RE NOT CARRY
ING IT": RETURN
780 IF TX=1 PRINT "IT DOESN'T WORK": RET
URN
790 OS(8)="Z: WRO: OTIXS"
800 PRINT "OK": RETURN
810 IF O(8)<>-1 PRINT "YOU'RE NOT CARRY
ING IT": RETURN
820 IF LEN(OS(8))<>11 PRINT "IT'S NOT O
N": RETURN
830 OS(8)="ZU: NUWRO: OTIXS": PRINT "OK": R
ETURN
840 IF O(3)<>-1 PROCd("BTN: SZM": UT: VZO
XS" H"): RETURN
850 IF N=8 AND O(8)=-1 PROCd("OS": OTIX
S: KWZHORK: ZWW: V"WOH"): RETURN
860 IF N=3 AND RN<>5 PRINT "OK": RETURN
870 IF N<>3 PRINT "YOU CAN'T LIGHT THAT
": RETURN
880 PROCd("OS": VZOXs: _WZi" H: NK: ZU: _HN
_ "UWB: Z: _RI": YZW": CKWT_ "HS0S" I": VNH0: SZ
M: Y"U": _:: _: CKWTHRM": _ZH" H: ZITNU_"): GO
TO1810
890 INPUT "NAME OF FILE", F$
900 O=OPENUP(F$): INPUT#O, RN, OS(4), OS(8
), OS(9), OS(5), IX
910 FOR loop=1 TO 23: INPUT#O, O(loop): N
EXT
920 INPUT#O, D(4, 3), D(1, 4), D(6, 10), D(2,
15), D(2, 13), D(4, 14), D(3, 19), D(3, 12), D(4,
8)
930 CLOSE#O: PRINT "OK": GOTO1050
940 INPUT "NAME OF FILE", F$
950 O=OPENOUT(F$): PRINT#O, RN, OS(4), OS(
8), OS(9), OS(5), IX
960 FOR loop=1 TO 23: PRINT#O, O(loop): N
EXT
970 PRINT#O, D(4, 3), D(1, 4), D(6, 10), D(2,
15), D(2, 13), D(4, 14), D(3, 19), D(3, 12), D(4,
8)
980 CLOSE#O: PRINT "OK": GOTO 1050
990 IF N=23 AND RN=3 PROCd("OS": _TTI: S
ZH: UT: MRHRYW": V"ZUH: T: V"RU": _: TK"U_"): R
ETURN
1000 IF N<>19 OR RN<>18 PRINT "YOU CAN'T
DO THAT": RETURN
1010 IF O(13)<>-1 PROCd("BTN: U": _ITV"O
SRU": OT: TK"U: RO: LROS"): RETURN
1020 IF O(9)<>-1 "ZU: VKOB: YTOOM" PROCd(
"BTN: Zi"U: KO: HOITU": UTM" S"): RETURN
1030 IF O(23)=18 PRINT "IT'S ALREADY OPE
N": RETURN
1040 O(23)=18: PRINT "OK": RETURN
1050 RESTORE (RN*10): IF RN=5 AND OS(8)=

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OPERATION KRISTOS

```

"ZU;NUWRO:OTIXS" OR RX>10 AND O(8)="ZU;
NUWRO:OTIXS" PRINT"IT'S TOO DARK TO SEE"
:RETURN
1060 READ R$:PRINT$
1070 FORN=1 TO 23:IF O(N)<>RX GOTO1080
ELSE IF N<15 PRINT"HERE THERE IS ":PROC
D(O(N)) ELSE PROC D(O(N))
1080 NEXT
1090 RETURN
1100 IF RX<>20 PRINT"YOU HAVE TO SOLVE
THIS ADVENTURE":RETURN
1110 IF O(2)<>20 OR D(6,10)=11 OR D(4,1
4)=21 PRINT"IT'S BEING JAMMED":RETURN
1120 PROCend
1130 PROC D("OSRH;RH:UT:ORV:OT:HW`K5BT
N<M`:T:OT::H2M:OS`:ZIOS"):RETURN
1140 IF N<>4 PRINT"YOU CAN'T TIE THAT":
RETURN
1150 IF O(4)<>-1 PRINT"YOU'RE NOT CARRY
ING IT":RETURN
1160 IF RX<>10 OR O(19)<>10 PRINT"NO PO
INT IN DOING THAT HERE":RETURN
1170 PRINT"OK":D(6,10)=11:O(8)= "Z;W`U
OS`:T:ITK:SZU:RU`TLULZI`H":O(8)=10:IX
=IX-1:RETURN
1180 PRINT"YOU CAN'T DO THAT":RETURN
1190 IF N=0 PRINT"FIRE! WHERE?":RETURN
1200 IF N<>14 PRINT"YOU CAN'T FIRE THAT
":RETURN
1210 IF O(N)<>-1 PRINT"YOU DON'T HAVE I
T":RETURN
1220 IF RX<>19 PRINT"DON'T BE VIOLENT":
RETURN
1230 IF O(21)=21 PRINT"AT WHAT?":RETURN
1240 PROC D("OS`:KSTOTU:IZB:SROH:OS`:KWZ
UO:ZU`OS`I":RH:ZU:`CKWTHRTU:T:KWZUO:JW
`HS")
1250 O(20)=99:O(21)=19:D(3,19)=20:RETU
R
1260 IF N<>21 OR RX<>13 PRINT"YOU CAN'T
PRESS THAT":RETURN
1270 PROC D("Z:HXZUU`I:XZORMZO`H5Z:RZW:
JWZHS`H:OS`:LZURU`<SNVZ<5HN`UWB:Z:
\ITNK:T::::ITVTOH:ZKK`ZI:ZO:OS`:TOS`I:
HR):OS`:XSZHV")
1280 TIME=0:REPEATUNTIL TIME=60
1290 PROC D("OS`B:TK`U:RI"):GOTO1810
1300 IF N=0 PRINT"I don't understand":R
ETURN
1310 IF RX<>4 AND RX<>15 GOTO530
1320 IF O(N)<>-1 GOTO530
1330 IF RX=15 AND N=7 PROC D("OS`:IT:JW
R`H:HTNOSLZI`H:ZU`Y`XTV`H:::L`<`Y`O
L`U:OS`:LZWWH"):D(2,15)=16:O(7)=98:IX=I
X-1:RETURN
1340 IF RX=15 AND D(1,6)=7 GOTO530
1350 IF N<>12 PROC D("Z:XZV`IZ:HWR`H:TNO
:ZU`OIZXPH:OS`:TVQ`XOZ:WZH`I:NU:WTXPH:
TUOT:RO:ZU:JRI`H"):IX=IX-1:O(N)=99:RETU
R
1360 PROC D("Z:MR`T:XZV`IZ:HWR`H:TNO:Z
U:Z:WZH`I:::NU:WTXPH:TUOT:OS`:V`OZW:ZU
`I:RI`H5OS`:IZB:RH:JW`XO`::T:J:OS`:V`
OZW:ZU:RO::SROH:OS`:XZV`IZ")
1370 O(12)=4:O(16)=4:IX=IX-1:D(1,4)=6:R
ETURN
1380 IF RX=3 AND N=23 PROC D("OS`:TTI:V
NHO:TK`U:TU:Z:X`IOZRU:XZORTU"):RETURN
1390 IF RX=7 AND N=26 AND O(6)=99 PROC D
("BTN:H`Z:HOR):KR`X`T:J:LR:RUHR`")

```

```

:O(6)=7:RETURN
1400 IF RX=9 AND N=18 AND O(8)=99 PROC D
("BTN:JRU:Z:OTIXS5HTV`TU:VNHO:SZM`Y`
U:I`Z`RU:NU`I:OS`:HS`OH"):O(8)=RX:RET
URN
1410 IF N=34 AND RX=10 PRINT"IT LOOKS V
ERY LUXURIOUS":RETURN
1420 IF N=30 AND RX=15 AND O(11)=99 PRO
Cd("BTN:H`Z:HVZWW:ITR`"):O(11)=RX:RET
URN
1430 IF N=17 AND RX=18 AND O(23)=18 PRO
Cd("BTN:JRU:Z:YVZHO`I"):O(14)=18:RETURN
1440 PRINT"YOU SEE NOTHING SPECIAL":RET
URN
1450 IF RX=3 AND D(4,3)=0 PROC D("BTN:T
U<O`U`::S`WK:OT:TK`U:Z:TTI:T:BTN$")
:RETURN
1460 IF RX=19 AND O(21)=19 PRINT"KILL I
T":RETURN
1470 PRINT"YOU'RE ON YOU OWN HERE":RETU
R
1480 IF RX<>10 AND RX<>21 PRINT"YOU CAN
'T DO THAT":RETURN
1490 IF RX=10 AND D(6,10)<>0 PRINT"YOU'
VE ALREADY DONE THAT":RETURN
1500 IF RX=10 PROC D("BTN:IRK:NK:OS`:XZI
K`O:OT:I`M`ZW:Z`ZKRU`STW`"):D(6,10)=4:
O(19)=RX:RETURN
1510 PROC D("BTN:KNWW:OS`:XTVKNO`I:ZU:
RO:NUKWNH5::OS`I`RH:Z:VZHHRM`CKWTHR
TU"):RX=22:D(4,18)=22:GOTO1050
1520 SN=0
1530 IF D(4,3)=4 SN=100
1540 IF D(1,4)=6 SN=SN+100
1550 IF D(6,10)<>0 SN=SN+100
1560 IF D(2,15)=16 SN=SN+100
1570 IF D(4,14)=22 SN=SN+100
1580 IF D(3,19)=20 SN=SN+100
1590 IF D(2,13)=23 SN=SN+100
1600 PRINT"YOU SCORE ":SN:" OUT OF 800"
:RETURN
1610 IF N<>36 PRINT"YOU CAN'T DRINK THA
T":RETURN
1620 IF O(9)<>-1 PRINT"YOU'RE NOT CARRY
ING IT":RETURN
1630 IF O(9)= "ZU:VKOB:YTOOW`" PRINT"YO
U ALREADY HAVE":RETURN
1640 PRINT"DELICIOUS":O(9)= "ZU:VKOB:Y
TOOW`":RETURN
1650 IF N<>2 PRINT"EH?":RETURN
1660 IF O(2)<>-1 PRINT"YOU'RE NOT CARRY
ING IT":RETURN
1670 IF RX<>20 PROC D("BTN<M`:TO:OT:ZOO
ZXS:RO:OT:OS`:WZH`I"):RETURN
1680 PROC D("TP:BTN:ZOOZXS:RO:OT:OS`:WZH
`I"):IX=IX-1:O(2)=20:D(4,20)=42:RETURN
1690 SN=D(DN,RX)-34
1700 ON SN GOTO1710,1720,1730,1750,1760
,1770,1780,1790,1800
1710 IF BX=1 AND V=1 AND RX=1 RX=2:GOTO
1050 ELSE IF BX=1 AND V=2 AND RX=3 RX=2
:GOTO1050 ELSE PROC D("OS`I`RH:UT:ZRI:RU
T:Z:MXNNV:ONY`ZU:BTN`R`):ITV:HN:JTXZOR
TU"):GOTO1810
1720 PROC D("Z:MR`T:XZV`IZ:WTXPH:TUOT:B
TN:ZU:Z:::WZH`I:XZUUT:ZKK`ZIH:ZU:JRI
`H:ZO:BTN"):GOTO1810
1730 IF O(5)<>-1 PROC D("OS`:ZU`ITR`H:ON
IU:ZITNU`SOS`B:KNWW:TNO:OS`RI:YVZHO`IH:

```

```

PROCd
Y:Y^
S:RET
KS V
PRO
RET
PRO
TURN
RET
N:~T
Ns))
LL I
RETU
CAN
YOU'
XZI
41:
ZU:
WTHR
800"
THA
ARRY
T"YO
DB:Y
ARRY
ZOO
WZH
RN
1760
GOTO
RN=2
KZOR
OT:B
:~R
H:ON
IH:
ZU_:]RI^:ZO:BTN3UTO:M^IB:URX^:OSZO2^):GO
TO1810
1740 PROCd("Z:WR^SO:TU:BTNI:YWZXP:YTC:]
WZHS^H:ZU_:::OS^:ZU_~TR^H:HOZIO:\TRU^:XI
ZAB:ZU_:OS^U^H^W^]6_~HOINXO^):O(10)=8:D(3
.8)=9:O(18)=8:O(17)=99:RN=9:GOTO1050
1750 PROCd("BTN:LZWP:T:]OS^:_^:~T:]OS
^:XSZH:ZU_:~R^:~):GOTO1810
1760 PROCd("OS^:LZWH:T:]OS^:XTVKI^HHTI
^:XWTH^RU:~:ZU_:BTNI:ZI^:HWTLWB:XINHS^_
Y^OL^U:OS^:LZWH^):GOTO1810
1770 PROCd("BTN:OIRK:TM^I:Z:]^~W^I:T:]O
S^:KWZUO:ZU_:BTNI:YT^B:HOZIOH:OT^RHHTWM
^RU:OS^:~:~R^HORM^:QNRX^H^):GOTO1810
1780 PROCd("BTN:JZWW^TLU:OS^:STW^:ZU:
YI^ZP:BTNI:~:U^XP^):GOTO1810
1790 PROCd("OS^:VRU^:~CKWT^H:ZU_:BTN:S
ZM^:HZM^:~OS^:ZIOS^YNO:BTN:SZM^:_R^:RU:
OS^:ZOO^Vko^):GOTO1810
1800 IF O(8)=~Z:WRO:OTIXS^ AND O(8)=~1
PROCd("BTNI:OTIXS^:~T^H:TNO^):TX=1:RX=13
GOSUB10:GOTO1050 ELSE RX=13:GOTO1050
1810 PRINT"OH DEAR YOU APPEAR TO HAVE D
IED"
1820 PRINT"YOU REALLY MUST BE MORE CARE
FUL IN"
1830 PRINT"FUTURE IF YOU WANT TO GET ON
IN THIS GAME"
1840 pfr=1:GOSUB 1520
1850 END
1860 DEFPROCend
1870 PRINT"WELL DONE.YOU HAVE SAVED THE
EARTH AND ARE AWARDED THE TRIPLE STAR.
YOUR SCORE IS 800 OUT OF 800":END
1880 RESTORE 2030
1890 V=O:REPEAT
1900 READ TS
1910 V=V+1
1920 UNTIL VS=TS OR TS="*"
1930 IF TS="*" PRINT"verb not known!":
GOTO270
1940 IF N$="~" N=O:GOTO2010 ELSE IF V=16
OR V=17 GOTO2010
1950 RESTORE 2040
1960 N=O:REPEAT
1970 READ TS
1980 N=N+1
1990 UNTIL N$=TS OR TS="*"
2000 IF TS="*" PRINT"Noun not known!":
GOTO270
2010 ON V GOSUB380,380,380,380,380,380,
440,440,530,570,570,620,620,660,690,710,
710,770,810,840,890,940,990,1300,1100,11
30,1140,1180,1190,1260,1260,1050,1380,14
50,1480,1480,1480,1520,1610,1650,620,620
2020 GOTO270
2030 DATAN,S.E.W,U.D.GET,TAKE,DROP,INVE
.INV,SMAS,BREA,KILL,HOLD,SAY,SHOU,ON,OFF
.LIGH,LOAD,SAVE,OPEN,THRO,TELE,SLEE,TIE,
UNTI,FIRE,PUSH,PRES,LOOK,EXAM,HELP,LIFT,
RIP,PULL,SCOR,DRIN,PRIM,KICK,HIT,*
2040 DATABRAC,MINE,MATC,ROPE,BOX,WIRE,R
OD,TORC,BOTT,LEG,DROI,META,SCRE,BLAS,CAM
E,ANDR,HOLE,BED,HATC,PLAN,BUTT,BRID,DOOR
.OPEN,BREA,PANE,LASE,COMP,CHAS,RUBB,DOME
.BATT,ROBO,CARP,CHUT,JUIC,TABLE,AIRL
,*
2050 END
2060 DEFPROCd(D$)
2070 $&A00=D$

```

```

2080 CALL&C00
2090 PRINT:ENDPROC
2100 DEFPROCobj:RESTORE 2150
2110 FORM=1 TO 23
2120 READ O$(N),O(N)
2130 NEXT
2140 ENDPROC
2150 DATA"Z:O^W^KTIO:YIZX^W^O^,-1,"Z:WR
VKRO:VRU^",-1,"Z:YTC:T:]VZOXS^H^,&,"Z:W
U^OS:T:]UBUTU:ITK^",5
2160 DATA"Z:HVZWW:YWZXP:YTC:NU^~I:~:OS^
:LZWPLZB^",6,"Z:KR^X^:T:]HOR^]:LRI^",99,"
Z:V^OZW:IT^",8,"Z:NUWRO:OTIXS^",99
2170 DATA"Z:YTOOW^:T:]QNRX^",9,"Z:ZU:I
TR^:W^",99,"Z:HVZWW:ITR^",99,"Z:HSRUB:
HS^O:T:]V^OZW^",1,"Z:HXI^L^IRM^I^",14,"Z:
YWZHO^I^",99
2180 DATA"OS^:~TTI:RH:UTL:TK^U^",99
2190 DATA"Z:YWTLU6NK:MR^T:XZV^IZ:SZU^H
:]ITV:OS^:LZWW^",99
2200 DATA"ITLH:T:]ZK^W^H:ZU_~TR^H:HRO
:ZO:OS^:~:XTVKNO^H^",8
2210 DATA"OS^:I^VRUH:T:]ZU_~TR^H:XTM^I
:OS^:]WTTI^",99
2220 DATA"Z:~ZKRU^:STW^:W^Z^H^:~TLULZI^H
^",99
2230 DATA"Z:WZI^~7V^UZXRU^:VZU6^ZORU^:K
WZUO:YZIH:BTNI:LZB^",19
2240 DATA"Z:WZI^:VZU6^ZORU^:KWZUO:WR^H
:_Z^:S^I^",99
2250 DATA"OS^:YIR^~:SZH^CO^U^~:HTNOS
LZI^H^",99
2260 DATA"OS^:SZOXS:SZH:Y^~U:TK^U^:OT:
I^M^ZW:Z:~ZIP:STW^",99
2270
2280 DEFPROCroomdata
2290 RESTORE 2340
2300 FORL=1 TO 23
2310 READ RS:FORM=1 TO 6:D(M,L)=(ASC(
MID$(RS,M,1))-65):NEXTM
2320 NEXTL
2330 ENDPROC
2340 DATA&AAAAA
2350 DATA&BAAAA
2360 DATA&A&AAAA
2370 DATA&F&AAAA
2380 DATA&E&AAAA
2390 DATA&H&AAAA
2400 DATA&G&AAAA
2410 DATA&A&F&AA
2420 DATA&AAAA&IA
2430 DATA&AAAA&AA
2440 DATA&A&IM&AKA
2450 DATA&A&AL&AP
2460 DATA&A&AAAA
2470 DATA&AN&RA&VA
2480 DATA&AA&AAAA
2490 DATA&PA&A&AMA
2500 DATA&O&AT&SA
2510 DATA&AA&AAAA
2520 DATA&AA&A&IRA
2530 DATA&AA&A&ATA
2540 DATA&AA&AAAA
2550 DATA&AA&AAAA
2560 DATA&AN&MA&KA

```

CAR RACE

• ATARI 16K

Keep the revs up for some super race track action for one or two players.

The race circuit is seen from above and two car — blue and red — are ready at their starting positions. You must aim to break the track record or beat the other car past the finishing line.

The race begins when either joystick is moved. If you crash, your car is put back to the beginning of its current lap. Hitting the track boundary slows down the cars and crashing with other obstacles causes the car to explode.

• Nick Pearce

```

10 GRAPHICS 0:POKE 82,0:?" CAR RACE"
20 ? " by Nick Pearce, (c) 1984":GOSUB 8000
200 GOSUB CARS:GOSUB INFO
360 FOR P=0 TO 1:POKE CRASH+P,0:NEXT P:POKE 19,0:POKE 20,0
399 REM *** LOOP
400 FOR P=0 TO 1
410 IF PEEK(CRASH+P) THEN 600
420 IF PEEK(LAPS+P)=RACELAPS THEN POP:GOTO 800
490 NEXT P
500 IF PEEK(CONSOL)=START THEN 200
550 GOSUB SHOW:IF TIME<6000 THEN 400
560 GOTO 200
599 REM CRASH
600 SOUND P,38,0,14:POKE PC+P,64
610 FOR I=0 TO 30:POKE PCOL+P,RND(0)*255:NEXT I:SOUND P,0,0,0
620 POKE PC+P,80:POKE PX+P,PX(P):POKE PY+P,PY(P)
640 POKE PCOL+P,PCOL(P):POKE PCOL+2+P,PCOL(P+2):POKE PC+P,0:POKE CRASH+P,0
690 GOTO 490
799 REM RACE OVER
800 FOR K=14 TO 2 STEP -1:SOUND 0,40,0,K:NEXT K:GOSUB SHOW
810 RACED=1:CHAMPS="BLUE":IF P THEN CHAMPS="RED"
820 FOR P=0 TO 1:POKE CRASH+P,1:SOUND P,0,0,0:NEXT P
825 FOR N=1 TO LEN(CHAMPS):CHAMPS(N,N)=CHR$(ASC(CHAMPS(N))+128):NEXT N
830 RTIME$=STR$(TIME):IF TIME<BEST THEN BEST=TIME
835 FOR N=1 TO LEN(RTIME$):RTIME$(N,N)=CHR$(ASC(RTIME$(N))+128):NEXT N
840 GOSUB SHOW:GOTO 200
999 REM *** SHOW
1000 TIME=INT((PEEK(19)*256+PEEK(20))/5)
1010 N$=STR$(TIME):M$="0000":M$(5-LEN(N$))=N$
1020 POSITION 28,22:FOR I=1 TO 4:? CHR$(ASC(M$(I))+224):NEXT I
1040 N$=STR$(PEEK(LAPS)):M$="00":M$(3-LEN(N$))=N$
1050 POSITION 22,22:FOR I=1 TO 2:? CHR$(ASC(M$(I))+128):NEXT I
1060 N$=STR$(PEEK(LAPS+1)):M$="00":M$(3-LEN(N$))=N$
1070 POSITION 36,22:FOR I=1 TO 2:? CHR$(ASC(M$(I))+128):NEXT I
1090 RETURN
1999 REM *** CARS AT START
2000 FOR P=0 TO 1:SOUND P,0,0,0
2010 POKE PX+P,PX(P):POKE PY+P,PY(P):POKE PC+P,0
2020 POKE PCOL+P,PCOL(P):POKE PCOL+2+P,PCOL(P+2)
2030 POKE LAPS+P,0:POKE LINE+P,0:POKE COUNT+P,1:POKE CRASH+P,1
2050 NEXT P
2090 RETURN
2999 REM *** INFO DISPLAY
3000 J=0:SOUND 0,100,10,4:GOSUB DELAY:SOUND 0,0,0,0
3002 J=J+1:IF J=4 THEN J=1

```

```

3010 POSITION 0,22: ? BLANK$: : POSITION 0,22
3020 IF J=1 THEN ? "          car race": GOTO 3050
3030 IF J<2 THEN 3040
3032 ? "    race is " : NS=STR$(RACELAPS): FOR N=1 TO LEN(NS): ? CHR$(ASC(NS(N))+224)
: NEXT N: ? "    laps": GOTO 3050
3040 ? "    track record": CHR$(26): " " : NS=STR$(BEST): FOR N=1 TO LEN(NS): ? CHR$(ASC
(NS(N))+224): : NEXT N
3050 FOR I=1 TO 5: GOSUB DELAY: IF PEEK(CONSOL)=START THEN 3500
3060 POSITION 20,22: ? BLANK$: : POSITION 20,22: ? "    PRESS  START"
3080 IF PEEK(CONSOL)=START THEN 3500
3090 GOSUB DELAY: POSITION 20,22: ? BLANK$: : POSITION 20,22
3110 IF NOT RACED THEN ? "    PRESS  START": GOTO 3130
3120 ? "    ": CHAMP$: "  WON IN " : RTIME$:
3130 IF PEEK(CONSOL)<>START THEN NEXT I: GOTO 3002
3500 POP : POKE 77,0
3510 POSITION 0,22: ? "  blue  " : CHR$(140): "time": CHR$(140): "  red": CHR$(140)
3520 POSITION 20,22: ? BLANK$: : FOR P=0 TO 1: SOUND P,186,4,6: NEXT P
3600 POSITION 24,22: ? "go! go! go!": GOSUB DELAY
3630 IF STICK(0)<>15 OR STICK(1)<>15 THEN 3700
3640 POSITION 24,22: ? "go! go! go!": GOSUB DELAY
3680 IF STICK(0)=15 AND STICK(1)=15 THEN 3600
3700 POSITION 20,22: ? BLANK$:
3800 POKE 77,0: FOR K=14 TO 2 STEP -1: SOUND 0,40,0,K: NEXT K
3900 RETURN
3990 REM *** DELAY
4000 FOR K=0 TO 50: NEXT K: RETURN
7999 REM *** INITIALIZE
8000 SETCOLOR 1,1,0: SETCOLOR 2,13,10: SETCOLOR 4,11,2
8100 CONSOL=53279: START=6: SDMCTL=559: POKE 752,1
8120 RACELAPS=10: BEST=6000: RACED=0
8140 SHOW=1000: CARS=2000: INFO=3000: DELAY=4000
8220 ? "You are presented with a birds-eye view"
8230 ? "of a motor racing circuit. A blue car"
8240 ? "and a red car are ready at their start-"
8250 ? "ing positions. The race is over " : RACELAPS: " laps"
8260 ? "of the track (in clockwise direction)."
8270 ? "Try to break the track record or beat"
8280 ? "the other car to the finishing line!"
8290 ? "Use a joystick to drive your car (BLUE"
8300 ? "in jack 1 and RED in jack 2); press the"
8310 ? "trigger to go at full speed. The race"
8320 ? "begins when either stick is moved. The"
8330 ? "time is measured in tenths of seconds."
8340 ? "If you crash, your car is put back to"
8350 ? "the beginning of it's current lap."
8360 ? "To restart the race at any time, press"
8370 ? "the START key."
8390 ? "    PRESS  START":
8400 IF PEEK(CONSOL)<>START THEN 8400
8500 FOR I=1 TO 2: POSITION 12,23: SOUND 0,100,10,8: ? "wait 15 seconds":
8520 GOSUB DELAY: POSITION 12,23: SOUND 0,0,0,0: ? "          ": : GOSUB DELAY: N
EXT I
9000 RAMTOP=106: MYTOP=PEEK(RAMTOP)-12: POKE RAMTOP,MYTOP: MEN=MYTOP*256
9020 GRAPHICS 0: SETCOLOR 4,11,2: POKE SDMCTL,0: D=PEEK(560)+256*PEEK(561)
9040 POKE D+3,68: FOR I=D+6 TO D+26: POKE I,4: NEXT I: POKE D+27,6: POKE D+28,6
9100 CHIGH=206: COUNT=207: PCOL=704: PP=1536: PC=1544: PX=1548: PY=1552
9110 CRASH=1560: SKID=1562: LAPS=1564: LINE=1566
9120 PWBAS=54279: GRACLT=53277: GPFRAC=623: CHBAS=756
9150 DIM N$(6), N$(6), PX(1), PY(1), PCOL(3), CHAMPS(4), BLANK$(20), RTIME$(5)
9160 BLANK$=""
9200 DIM FILL$(17): FOR I=1 TO 17: READ J: FILL$(I)=CHR$(J): NEXT I

```

CAR RACE

```

9210 DATA 104,104,104,133,208,160,0,132,207,104,104,145,207,200,208,251,96
9220 DIM COPYS(23):FOR I=1 TO 23:READ J:COPYS(I)=CHRS(J):NEXT I
9230 DATA 104,104,104,133,206,104,104,133,208,160,0,132,205,132,207,177,205,145,
207,200,208,249,96
9249 REM CHARSET
9250 FOR I=0 TO 3:K=USR(ADR(COPYS),224+I,MYTOP+I):NEXT I
9260 FOR I=24 TO 127:READ J:POKE MEM+I,J:NEXT I:POKE CHBAS,MYTOP
9270 DATA 85,85,85,85,85,85,85,85
9272 DATA 1,13,13,5,21,213,213,85
9274 DATA 85,87,87,84,80,112,112,64
9276 DATA 64,112,112,80,84,87,87,85
9278 DATA 85,213,213,21,5,13,13,1
9280 DATA 245,85,85,85,85,85,85,85
9282 DATA 85,85,85,85,85,85,85,85
9284 DATA 213,213,213,213,85,85,85,85
9286 DATA 85,85,85,85,87,87,87,87
9288 DATA 0,12,51,0,0,48,204,0
9290 DATA 101,101,101,101,101,101,101,101
9292 DATA 48,12,48,12,48,12,48,12
9294 DATA 0,0,255,0,255,0,255,0
9299 REM FMG
9300 FOR I=MYTOP+8 TO MYTOP+11:K=USR(ADR(FILLS),I,0):NEXT I
9310 K=USR(ADR(FILLS),6,0):POKE PMBASE,MYTOP+4:POKE GPRIOR,33
9340 FOR I=0 TO 3:POKE PP+I,MYTOP+8+I:NEXT I
9350 FOR I=1605 TO 1611:READ J:POKE I,J:NEXT I:DATA 32,48,16,0,48,32,16
9380 PCOL(0)=122:PCOL(1)=58:PCOL(2)=254:PCOL(3)=254
9390 PX(0)=158:PX(1)=166:PY(0)=54:PY(1)=54
9400 FOR I=0 TO 79:READ J:POKE MEM+1792+I,J:NEXT I:POKE CHIGH,MYTOP+7
9420 DATA 0,24,24,24,24,24,24,0
9424 DATA 0,36,36,0,0,36,36,0
9428 DATA 0,0,60,60,60,0,0,0
9430 DATA 0,36,36,0,0,36,36,0
9440 DATA 0,16,56,56,28,28,8,0
9450 DATA 16,16,0,36,36,0,8,8
9470 DATA 0,8,28,28,56,56,16,0
9480 DATA 8,8,0,36,36,0,16,16
9482 DATA 73,235,126,63,124,254,91,16
9484 DATA 33,132,16,66,8,34,64,16
9499 REM VBI
9500 FOR I=1700 TO 1709:READ J:POKE I,J:NEXT I:POKE 1702,MYTOP+4
9520 DATA 104,162,0,160,0,169,7,76,92,228
9550 FOR I=MEM+1024 TO MEM+1346:READ J:POKE I,J:NEXT I:K=USR(1700)
9600 DATA 216,162,1,189,24,6,208,66,214,207,208,62,188,132,2,200
9610 DATA 152,24,125,26,6,149,207,188,120,2,152,41,8,208,3,254
9620 DATA 12,6,152,41,4,208,3,222,12,6,152,41,2,208,6,254
9630 DATA 16,6,254,16,6,152,41,1,208,8,222,16,6,222,16,6
9640 DATA 192,15,240,6,185,64,6,157,8,6,138,168,200,200,24,189
9650 DATA 8,6,105,8,153,8,6,189,12,6,153,12,6,189,16,6
9660 DATA 153,16,6,202,16,157,162,1,189,24,6,208,55,138,10,168
9670 DATA 169,0,153,1,210,189,120,2,201,15,240,40,169,38,153,1
9680 DATA 210,189,26,6,240,5,169,6,153,1,210,189,120,2,74,133
9690 DATA 209,189,132,2,208,4,169,0,240,2,169,16,24,101,209,105
9700 DATA 36,153,0,210,202,16,193,162,1,160,0,189,4,208,41,2
9710 DATA 240,1,200,189,30,6,240,9,152,208,12,157,30,6,254,28
9720 DATA 6,152,240,3,157,30,6,169,0,157,26,6,189,4,208,41
9730 DATA 8,208,7,189,12,208,41,3,240,7,169,1,157,24,6,208
9740 DATA 37,189,4,208,208,7,169,20,157,26,6,208,25,41,4,208
9750 DATA 18,138,168,200,200,185,4,208,41,4,208,7,185,12,208,41
9760 DATA 12,240,3,254,26,6,202,16,160,141,30,208,162,3,189,0
9770 DATA 6,133,204,189,4,6,133,203,169,0,160,255,200,145,203,192
9780 DATA 7,208,249,189,16,6,157,4,6,133,203,189,8,6,133,205

```


SKYCAPERS

29 CONTINUED

```

AND x%<cloudx(t) AND x%<cloudx(t)+3 THEN
dy%=-dy%:z%=1:SOUND 1,200,15,5
1035 NEXT
1037 IF z%=1 THEN GOTO 1060
1040 LOCATE x%,y%
1050 PRINT CHR$(INT(193+4*RND(1)))
1060 b=b+1:IF b=3 THEN GOSUB 1500:b=0
1499 RETURN
1500 '**** Move Bailiff ****
1510 bailiff=bailiff+1:IF bailiff=30 THEN
LOCATE bailiff,6:PRINT CHR$(32);CHR$(3
2);CHR$(11);CHR$(8);CHR$(32):bailiff=1
1520 LOCATE bailiff,6:PRINT bailiff$
1530 PEN 3:LOCATE bailiff+2,6:PRINT head$
1540 PEN 0
1550 Poun%=Poun%-1:PEN 2:LOCATE 2,3:PRIN
T"#":Poun%=SOUND 2,1,5,15
1560 IF Poun%<1 THEN GOTO 4000
1570 PEN 0:b=0
1599 RETURN
2000 '**** Move Stretcher Team ****
2010 LOCATE man%,23:PRINT CHR$(32);CHR$(
9);CHR$(9);CHR$(32);CHR$(10);CHR$(8);CHR
$(32):man%=man%-1
2020 LOCATE man%,23:PEN 3:PRINT top$
2030 LOCATE man%,24:PEN 0:PRINT bottom$
2035 RETURN
2040 LOCATE man%,23:PRINT CHR$(32);CHR$(
8);CHR$(10);CHR$(32);CHR$(11);CHR$(9);CH
R$(9);CHR$(32):man%=man%+1
2060 LOCATE man%,23:PEN 3:PRINT top$
2070 LOCATE man%,24:PEN 0:PRINT bottom$
2999 RETURN
3000 '**** Collisions? ****
3010 IF x%<bailiff AND x%<(bailiff+3) THEN
N scf%:=1:SOUND 2,16,20,15,1,10
3020 dy%=-dy%
3999 RETURN
4000 '**** Lose A Life ****
4010 lives%=lives%-1:IF lives%<1 THEN GO
TO 9000
4015 PEN 2:LOCATE 18,2:PRINT"MEN",lives%
4020 PEN 2:LOCATE 15,12:PRINT"AAAAH !":
SOUND 1,1500,15,15,5,12
4030 FOR t=1 TO 400:NEXT
4100 ll%=0:Poun%=200:man%=15
4110 GOTO 30
4500 '**** Score ****
4505 sc%=sc%+Poun%
4510 PEN 3
4520 LOCATE 2,2:PRINT"1UP",sc%
4530 doll%=100:Poun%=200
4535 PEN 2:LOCATE 2,3:PRINT"#":Poun%:LOC
ATE 30,3:PRINT"$",doll%
4540 screen%=screen%+1
4590 RETURN
5000 '**** Characters ****
5010 SYMBOL AFTER 139
5020 SYMBOL 193,2,5,10,140,80,36,216,192
5030 SYMBOL 194,192,220,32,80,142,144,24
5040 SYMBOL 195,130,68,36,28,42,75,83,0
5050 SYMBOL 196,6,230,24,23,48,72,140,0
5060 SYMBOL 140,238,0,187,0,238,0,187,0
5070 SYMBOL 197,63,127,127,255,255,127,6
3,14
5080 SYMBOL 198,12,190,191,223,255,255,2
51,112

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5090 SYMBOL 199,56,124,126,254,252,248,1
12
5095 SYMBOL 207,0,0,0,0,60,126,126,255
5100 SYMBOL 200,62,88,170,95,182,120,60,
24
5120 SYMBOL 202,60,94,33,221,247,15,126,
60
5125 SYMBOL 203,126,118,247,251,60,118,1
02,119
5130 SYMBOL 204,0,0,0,255,127,128,0,0
5140 SYMBOL 205,126,110,239,223,60,110,1
02,238
5145 SYMBOL 206,0,0,0,255,254,1,0,0
5150 SYMBOL 208,62,88,170,95,178,110,56,
128
5160 SYMBOL 209,252,42,21,255,255,143,4,
7
5170 '**** Set character strings ****
5180 bottom$=CHR$(203)+CHR$(9)+CHR$(9)+C
HR$(205)
5190 top$=CHR$(200)+CHR$(10)+CHR$(204)+C
HR$(206)+CHR$(11)+CHR$(202)
5200 cloud$=CHR$(197)+CHR$(198)+CHR$(199
)
5210 bailiff$=CHR$(32)+CHR$(209)+CHR$(11
)+CHR$(8)+CHR$(32)+CHR$(207)
5220 head$=CHR$(208)
5999 RETURN
6000 '**** Set Screen Up ****
6020 BORDER 11:PAPER 1:CLS
6030 a$(1)=" "
6040 a$(2)=" "
6045 PEN 2:PAPER 0
6050 FOR t=5 TO 25:LOCATE 32,t:PRINT a$(
1):NEXT
6060 FOR t=5 TO 25 STEP 4:LOCATE 32,t:PR
INT a$(2):NEXT
6070 PLOT 1,340,0:DRAW 636,340,0:DRAW 63
6,399,0:DRAW 1,399,0:DRAW 1,340,0
6080 PAPER 1:LOCATE 2,2:PEN 3:PRINT"1UP"
,sc%:LOCATE 30,2:PRINT"HI",hi%:PEN 2:LOC
ATE 2,3:PRINT"#":Poun%:LOCATE 30,3:PRINT
"$",doll%:LOCATE 18,2:PRINT"MEN",lives%
6090 PEN 3:FOR t=1 TO screen%:cloudx(t)=
INT(1+26*RND(1)):cloudy(t)=INT(8+5*RND(0
)):LOCATE cloudx(t),cloudy(t):PRINT clou
d$:NEXT
6999 RETURN
8000 '**** Title Screen ****
8005 INK 1,11:INK 2,6:INK 0,0:INK 3,26:M
ODE 1:PAPER 1:CLS
8010 t$="S Y A E S":b$=" K C P R":yc=2
8020 IF yc=1 THEN yc=2:cy=1 ELSE yc=1:cy
=2
8030 PEN 0:LOCATE 4,7:PRINT"The Cast":PE
N 2:LOCATE 4,8:PRINT"----"
8040 PEN 3:LOCATE 4,10:PRINT top$:PEN 0:
LOCATE 4,11:PRINT bottom$, " .... Fred
& Bill"
8050 LOCATE 5,13:PRINT bailiff$:PEN 3:LO
CATE 7,13:PRINT head$:PEN 0:PRINT" ..
... Super Bailiff"
8060 LOCATE 6,15:PRINT CHR$(196)," ..
... The Debtor"
8070 PEN 3:LOCATE 5,17:PRINT cloudy$:PEN
0:PRINT" .... The Cloud"
8080 PEN 2:LOCATE 10,20:PRINT"Press i fo
r instructions":LOCATE 10,22:PRINT"Press
any key to Play"
8085 PEN 3:LOCATE 16,yc:PRINT t$:PEN 0:L

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```

0040 16,CY:PRINT B$
8890 C$=INKEY$:IF C$="" THEN 8020
8100 IF C$="i" OR C$="I" THEN i=1
8999 RETURN
9000 '#### Game over ####
9010 A$="GAME OVER"
9020 PEN 2:LOCATE 18,2:PRINT"MEN";LIVES%
9035 PEN 0
9040 IF S<=H% THEN H%=S%
9050 FOR t=1 TO 9:I$=MID$(A$,t,1):LOCATE
t+14,12:PRINT I$;FOR s=1 TO 200:NEXT
9060 NEXT
9999 GOTO 8
10000 'Instructions
10010 MODE 1:PEN 0:PAPER 1:CLS:LOCATE 14
,1:PRINT"Instructions"
10020 LOCATE 14,2:PRINT"-----"
10030 PRINT:PRINT"Once upon a time in the
city of London ascertain female Politic
ian who will remain unnamed, became

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Prime Minister of Jolly old England.
10040 PRINT"Suddenly Jolly old England b
ecame not so jolly as the # went down aga
inst the $."
10050 PRINT"As this happened the People
of England became bankrupt and started
committing suicide."
10060 PRINT:PRINT"You guide Fred & Bill
the tax collectors left & right with your
joustick to try to bounce the People u
p to SUPER BAILIFF at the top of the scre
en."
10070 PRINT"If you do this you get the t
ax the Person owes you if you don't
before the # reaches 0 then you lose a
life."
10080 PRINT:PRINT:PRINT:PRINT" Pr
ess a key to start"
10090 C$=INKEY$:IF C$="" THEN 10090
10100 RETURN

```

LOW LEVEL

• CBM 64

Test your flying skills as you fly close to the ground to avoid enemy radar, miss buildings and dodge the hostile planes the they swoop down from the sky.

You don't have any weapons system but you do have large fuel reserves. But are you up to facing this ordeal?

Words inside square brackets are

```

10 POKE18025,0:POKE18026,1:POKE18020,0
12 REM ** ENABLE ALL 8 SPRITES **
13 V=53248:POKEV+21,255
15 REM ** SET ALL SPRITES TO MULTICOLOUR MODE **
16 POKEV+28,255
17 REM ** COLOUR ALL SPRITES **
18 POKEV+37,0:REM MULTICOLOUR 1
19 POKEV+38,12:REM MULTICOLOUR 2
20 POKEV+39,15:POKEV+46,15:POKEV+45,15:REM COLOUR SPRITES 0,6,7 LIGHT GREY
21 POKE53280,6:POKE53281,6:REM *** BACKGROUND AND BORDER BLUE ***
22 PRINT"[CLEAR][WHITE]LOW LEVEL WAS WRITTEN BY IAN BROWN."
23 PRINT"GRAPHICS BEING DEFINED AND MACHINE CODE BEING ENTERED.[RIGHT]PLEASE WAI
T..."
24 REM ** DISABLE I/O AND KEYBOARD SCAN **
26 POKE56334,PEEK(56334)AND254:POKE1,PEEK(1)AND251
28 REM ** COPY FIRST 63 CHARACTERS FROM ROM **
30 FORI=0TO63:FORJ=0TO7:POKE12288+I*8+J,PEEK(53248+I*8+J):NEXTJ:NEXTI
32 REM ** ENABLE I/O AND KEYBOARD SCAN **
34 POKE1,PEEK(1)OR4:POKE56334,PEEK(56334)OR1
36 REM ** COPY IN PROGRAMMABLE CHARACTERS FROM DATA STATEMENTS **
38 FORI=1TO13:READCHAR:FORJ=0TO7:READNO:POKE12288+CHAR*8+J,NO:NEXTJ:NEXTI
39 REM ** CLEAR MEMORY FOR THE SPRITES **
40 FORX=0TO129:POKE832+X,0:NEXTX
41 REM ** COPY IN PLANE CONTROLLED BY PLAYER FROM DATA STATEMENTS **
42 FORX=0TO34:READQ:POKE832+X,Q:NEXTX
43 REM ** COPY IN ENEMY PLANE FROM DATA **
44 FORX=0TO34:READQ:POKE896+X,Q:NEXTX
59 REM *** SET CHAR MEMORY POINTER TO MEM. 12288 ***

```

converted Commodore graphic symbols. For instance [CLEAR] means press SHIFT and CLR/HOME key.

The ^ symbol, which appears in a number of lines, is the up-arrow ↑ (just to the left of the restore key).

• Ian Brown

```

60 POKES3272,(PEEK(53272)AND240)+12
61 REM *** ENABLE MULTICOLOUR MODE PROG. CHARS. ***
62 POKES3270,PEEK(53270)OR16
63 POKES3282,11:REM MULTICOLOUR 1
64 POKES3283,0: REM MULTICOLOUR 2
65 REM ** POKE DATA FOR M/C SCROLLING ROUTINE INTO MEMORY **
66 FORX=0TO97:READQ:POKE16384+X,Q:NEXTX
67 REM ** POKE DATA FOR M/C ROUTINE MOVING ENEMY PLANE 1 INTO MEMORY **
68 FORX=0TO49:READQ:POKE16500+X,Q:NEXTX
69 REM ** POKE DATA FOR M/C ROUTINE MOVING ENEMY PLANE 2 INTO MEMORY **
70 FORX=0TO89:READQ:POKE16600+X,Q:NEXTX
71 REM ** POKE IN M/C ROUTINE MOVING ENEMY PLANES 3 AND 4 INTO MEMORY **
72 FORX=0TO89:Q=PEEK(16600+X):P=Q:IFQ=4THEN100
73 IFQ=5THEN102
74 IFQ=90THEN104
75 POKEL6700+X,Q:POKE16800+X,P:NEXTX:GOTO107
76 IFPEEK(16601+X)=208THENQ=6:P=8
77 GOTO99
78 IFPEEK(16601+X)=208THENQ=7:P=9
79 GOTO99
80 IFPEEK(16601+X)=70THENQ=91:P=92
81 GOTO99
82 POKEL6714,8:POKE16716,8:POKE16723,247:POKE16739,8:POKE16744,140
83 POKEL6814,16:POKE16816,16:POKE16823,239:POKE16839,16:POKE16844,180
84 REM ** POKE IN M/C ROUTINE MOVING ENEMY PLANE 5 INTO MEMORY **
85 FORX=0TO49:Q=PEEK(16500+X):IFQ=2THEN113
86 IFQ=3THEN115
87 POKEL6900+X,Q:NEXTX:GOTO118
88 IFPEEK(16501+X)=208THENQ=10
89 GOTO112
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LOW LEVEL

```

1020 DATA 65.80,0.144,84.0,0.165
1021 DATA 85.80,170.170,148.170,170
1022 DATA 169.170,85.170,170,85.170
1023 DATA 85.85,85.1,84.0,1
1024 DATA 80.0,1.64,0.0,0
1029 REM ** DATA FOR ENEMY PLANES **
1030 DATA 0.5,65.0,21.7,5
1031 DATA 85.95,23.255,255.127,255
1032 DATA 255,255,85,255,255,85,255
1033 DATA 85.85,85.0,21.64,0
1034 DATA 5.64,0.1,64.0,0
1039 REM ** DATA FOR M/C SCROLLING ROUTINE **
1040 DATA 173.144,5.141,80.70,173.184,5.141
1041 DATA 81.70,173.224,5.141,82.70,173.8
1042 DATA 6.141,83.70,173.48,6.141,84.70
1043 DATA 162.1,189.144,5.157,143.5,189.184
1044 DATA 5.157,183.5,189.224,5.157,223.5
1045 DATA 189.8,6.157,7.6,189.48,6.157
1046 DATA 47.6,232.224,40.208,221.173,80.70
1047 DATA 141.183,5.173,81.70,141.223,5.173
1048 DATA 82.70,141.7,6.173,83.70,141.47
1049 DATA 6.173,84.70,141.87,6.96
1050 REM ** DATA FOR M/C ROUTINE MOVING ENEMY PLANE 1 **
1051 DATA 206.2,208.173,2.208,201.0,208.38
1052 DATA 173.16,208.41,2.201,2.208,16.173
1053 DATA 16.208,41,253.141,16.208,169.255,141
1054 DATA 2.208,76.164,64,173.16,208.9,2
1055 DATA 141.16,208.169,100,141.2,208.96,96
1059 REM ** DATA FOR M/C ROUTINE MOVING ENEMY PLANE 2 **
1060 DATA 206.4,208.173,4.208,201.0,208.38
1061 DATA 173.16,208.41,4.201,4.208,16,173
1062 DATA 16.208,41,251.141,16.208,169.255,141
1063 DATA 4.208,76.8,65,173.16,208.9,4
1064 DATA 141.16,208.169,150,141.4,208.173,90
1065 DATA 70.201,0.208,17.206,5,208.173,5
1066 DATA 208.201,50,240.1,96.169,1,141,90
1067 DATA 70.96,238.5,208.173,5,208.201,120
1068 DATA 240.1,96.169,0.141,90,70.96,96
1069 REM ** DATA FOR M/C CONTROL ROUTINE WHICH CALLS ALL OTHER ROUTINES **
1070 DATA 32.116,64,32,216,64,32,60,65,32
1071 DATA 160,65,32,4,66,238,100,70,32,204
1072 DATA 66,173,100,70,201,16,208,8,32,0
1073 DATA 64,169,0,141,100,70,96
1079 REM ** DATA FOR M/C FOR MOVING PLANE CONTROLLED BY PLAYER **
1080 DATA 32.148,67,173,0,220,201,126,240,32
1081 DATA 201,125,240,44,201,119,240,44,201,123
1082 DATA 240,56,173,197,0,201,10,240,13,201
1083 DATA 12,240,25,201,36,240,25,201,39,240
1084 DATA 37,96,206,1,208,173,1,208,201,49
1085 DATA 208,5,169,50,141,1,208,96,238,1
1086 DATA 208,96,238,0,208,173,0,208,201,61
1087 DATA 208,5,169,60,141,0,208,96,206,0
1088 DATA 208,173,0,208,201,49,208,245,169,50
1089 DATA 141,0,208,96
1099 REM ** DATA FOR M/C ROUTINE CHECKING FOR COLLISIONS **
1100 DATA 173,31,208,41,1,201,1,240,10,173
1101 DATA 30,208,41,1,201,1,240,1,96,169
1102 DATA 0,141,100,70,141,106,70,96
1109 REM ** DATA FOR M/C ROUTINE MAKING PLANE ENGINE SOUND EFFECT **
1110 DATA 169,0,141,4,212,169,55,141,6,212
1111 DATA 169,4,141,24,212,169,150,141,5,212
1112 DATA 169,6,141,1,212,169,200,141,0,212
1113 DATA 169,33,141,4,212,76,48,67

```

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Address:

Tel: Date:

Type of game: (If original please say so)

Loading instructions:

Game instructions: (If not included in the listing)

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Acknowledgement sent: <input type="checkbox"/>	Good enough to publish <input type="checkbox"/>
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